

CU AMIGA

GOLD DISK'S MOVIESETTER

End in Injury: Movie Suffer!

Source: <http://www.fishbase.org> and the www.fishbase.org website.

1000

100

Direct planning solutions will help surrounding and other relevant parties find common ground, build trust, target shared efforts — instead of going through time or full-scale conflict.

- **key ideas**: 10 systems | synchronized sounds | same run in
- **10/10**: featured editor | eye effects | full storyboarding
- **the 10 compatible**: rolled along program assets

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[illegible]

9200 Complete guide
Western Stone
Western connection &
this great Old stone

9201 Complete guide
Western Stone
from the series of 1800

POD Full article

CATION TIME: How long will it take us to replace **MADE:** Can you escape from this world? Or not? **Free the soul from the human prison!**



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U. S. A. H. K. S. K.

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TRANSFORM YOUR AMIGA INTO A SUPER MACHINE • TURN TO OUR BY SPECIAL ON PAGE 28 ■ KIND WORDS 3.0: ARTS REVIEWED AND RATED ■ GRAPHICS BY ■ PERSONAL FINANCE MANAGER PLUS ■ SHADOW OF THE BEAST 3 ■ SWORD OF HONOUR ■ HARD DRIVE BUYER'S GUIDE ■ INFO 4



ROLE PLAY FOR PC

The Legend of Darkmoon continues

The famous role model for all AD&D role-playing fanatics, the dreaded Temple Darkmoon is back.

More sinister, terrifying and haunting than ever, it will slowly weave into your sub-conscious and refuse to let go.



Through a clearing in the shadowy forest, a trio of towers rise menacingly into the night sky. You are on the threshold of terror, one wrong move and it's curtains. Finish.

This exciting sequel to Eye of the Beholder is here. Dig deeper. Better. And as realistic as you'll keep looking over your shoulder.

The improved "point 'n' click" interface lets you control face-to-face with the most gruesome characters and complex clues.

In fact, you'll only want to stop playing this State of the Art adventure game for one reason. To pinch yourself and prove you're not in the middle of a nightmare.

Available on PC (EGA, VGA/MCGA (256 colours), 486), RAM and Hard disk required. Supports AdLib™, Soundblaster™ and compatibles. Amiga version coming soon.

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LAUGHS FOR PC

Side-splitting pirate adventure

Just when you thought it was to end the LeChuck, he's back.

The legend states that "where LeChuck wants you dead, you're dead", grim news for his old adversary, young Guybrush Threepwood.



But fear not. Big Whoop holds the key to great power. It's not lost.

In this amazing graphic sequel, young Guybrush's adventures will have you rolling in hysterics. Beware, you'll laugh so hard, milk will flow from your nose.

Behind every pirate is a really scary thief and in front of Guybrush is a rags to riches if it put lights in your chest.



With 256 colours (PC version), variable difficulty modes, interactive riddle areas and "point 'n' click" interface, you'll be transported to Monkey Island in a flash.

So, brace yourself, the fun starts here. Who knows when it will stop?

Available on: Amiga (32 colours) and PC (VGA/MCGA, Requires 640K, 800K RAM or compatible. Supports AdLib™, Roland™, Soundblaster™ and SoundMaster™™ sound cards. Hard drive required.

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A serious PC experience

U.S. Gold Ltd, Units 2/3, Halford Way, Halford, Birmingham B8 7AZ, England. Tel: 01-625 3396

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It's raining cats and dogs outside, but it's a beautiful crisp Spring day on the Tunny Pines Golf Course.

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And now, the 204 colour 3D graphics can be enjoyed on another six championship courses: Beautiful Manzanita, Pinestone CC South, Bayhill, Pinelhurst, Barton Creek and Hyatt Dorado.



So, put on your sun visor and practice your swing. You're next on the tee.

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MidiSound™ sound cards

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ACCESS

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FLIGHT FOR PC

A Simulation to take your breath away

Hard on the tail of Jetfighter I, the mind-blowing combat sequel is airborne.

Jetfighter II Advanced Tactical Fighter shows Top Gun down in flames.



Step yourself in as the most advanced and powerful 3D technology takes to the skies, with you as pilot whenever the time of day or night.

Revolutionary animation lets you see gunbarrels opening in the wind, radar chaff blooming behind your jet and feel the landing gear deploy and retract.



Dogfights take on a different dimension with real time artificial intelligence. Includes F/A-18 Hornet, F-16 Falco and F-14 Tomcat.

Features instant flying mode for beginners, interactive hypertext help system and tunable joystick system for maximum response.



So, answer the call of the wild. Now, even the sky's no limit.

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required, Supports ADLib™ and SoundBlaster™
sound cards. Hard drive recommended.

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A serious PC experience

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GET SERIOUS

PRODUCTIVITY REVIEWS

This month, our dedicated team of reviewers get to grips with the long-awaited A570 CD unit. After what seems an eternity of waiting, does Commodore's small unit truly offer complete CDTV compatibility, and, if so, is it really the way forward? Also under scrutiny is Dr. T's all-in-one music package, KGS 3.5. This complete package allows the user to work on every aspect of a tune using the Dr. T's software, whether it is initially putting the thing together or even printing out a score. That's not it, of course, and a further selection of reviews also await your attention...

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Professional Draw 3.0



KGS 3.5 with Level II

SCREEN SCENE

GAME REVIEWS

With previews of *Alien3*, *Kick Off 3*, *Indy 4* and *Second Samurai*, there's certainly a lot to look forward to later in the year. There's also a lot of brilliant games out now, too, as our reviews of *Shadow of the Beast 3*, *Sword of Honour*, *Trivial Pursuit* and *Tennis Cup 3* prove.

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SOCCER II



COVERDISKS

In our earlier and oft-cited list of things you like, we listed the games and albums that we particularly special...



DISK 40

Good Disk's stunning MovieSifter animation studio grades disk 40, as we proudly present you with the utility Eric Schwartz uses in all his American Animations. With MovieSifter you can put together stunning sequences. AND add sound to them! Full editing capabilities are also available, allowing the user complete editorial control over their creations - Steve Spielberg watch out! In addition, all the usual graphical thrills, such as colour cycling and scrolling backdrops, are available to add much-needed movement to your work. In fact, the only limitations imposed on you are by the memory available and your imagination, and if you have ever wanted to take on Schwartz at his own game, then here's the perfect opportunity.



DISK 41

Opening Disk 41 is an exclusive conversion of Shamus Southern's 8 bit classic, *Pod* - written for us by the great man himself. Incidentally, Shamus will also be converting some more old favourites exclusively for us, so stay tuned for more stunning versions of old favourites. Also on the disk is a play-alike demo of DM's cutesy space-rated cipher, *Catch 2m*, which offers several stages for your delectation.

With Shamus Southern contributing *Pod*, next up is O'Brien - a conversion of the old O'Brien code-guy by DMV coder, Ronald Weavers. It's a cooking version of the arcade staple, and one that will have you returning again and again as you try to conquer its many pyramids. Finally, we enter the realm of silliness with one Mr Mobby, before entering a large 3D Maze in the originally titled *Maze*...

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PRICE DROP FOR A600



Commodore's newest Amiga has just had a 25% price cut and now retails for only \$299. The machine, after healthy sales of 65,000 in its first three months, has abandoned the \$399 price point that Commodore seems so fond of. The move has been explained easily as the result of unexpected reliability in the new machine, with returns

of around a mere 1%, this may well be the case, but with a new machine on the horizon and a profitable A600 bundle it could be that for once the company is trying to sell not a replacement price package before the machines actually go on sale.

This will not affect the price of the A6000 (the hard drive model), which will remain at the still-reasonable \$499 mark. Whether or not this is because the A600 model isn't as reliable as the plain A600 isn't clear.

Being Russians, one of the UK's leading Amiga dealers, were impressed with the new low price, but also surprised by the move. Andy Lanning, (Gloucestershire) spokesperson offered, "It's great news. At this price the Amiga market will grow considerably and attract a lot of new users. It'll be interesting to see what other manufacturers, particularly those producing the high specification games consoles (Pico Engine, Freebird, etc.) do in return. A \$299 Amiga will make many prospective console buyers think twice about which system they buy. Previously there was a large difference between the price of consoles and the Amiga, now that difference is much smaller and I'm expect a lot of the more portable console buyers will consider the Amiga 600 given to better specification."

IDEAL HARDWARE TAKES ON FLOPTICAL

One of the most practical solutions to large volume storage has arrived in the UK. The Floptical drive is a combination of conventional magnetic disk technology and the optical drive techniques used on more expensive removable cartridge drives.



Based around a normal sized, specially treated 3.5" floppy disk, the Floptical uses high precision optical emitting hardware to reproduce an incredible 1268 tracks per inch of data. This means that a formatted disk can hold around 21 Mbytes data, half the size of an average hard-disk. The unit itself is an unobtrusive 3.5" mechanism so it can connect directly or be added to a SCSI chain. It can also read and write standard and high density floppy disks, which could make file transfers to other systems much easier.

The price has yet been fixed for the unit, but it is sure to be around the £200 mark. The immediate thing is that the Floptical disks, manufactured at the moment by IBM and Maxell, cost only £12 - that's about £1.75 per megabyte.

The Floptical drive, which is manufactured in the U.S.A. by Imatec, is already very popular across the Atlantic, and is sure to catch on here as a reliable and cost effective way of backing up and transferring large volumes of data.

CBM PERESTROIKA SHOCK

It is surprise none, new Commodore boss Kelly Sumner recently entertained members of the press at the company's UK headquarters. The normally taciturn company executives were feeding all sorts of questions from the floor, which were understandably predominantly about the proposed new Amigas. Although not completely forthcoming about new hardware, Sumner admitted that two such machines exist and both are planned for a UK launch, although no date was given.

Well placed sources say that one of these machines will feature a 32bit 68030 running at 25 MHz and will include the new A4 chipset. New graphics modes will allow resolutions up to 1024x800 in CGA colours or 18.7 million in HRGB mode. The DMA channels have been speeded up to around four times their original speed, allowing for new super-Snapshots mode and a full screen high. The Gitter will also be four times faster. As mentioned before the new Amiga will feature a DSP and an 8-channel 16 bit sound chip. Although Commodore were understandably cagey about a release date the latest rumours from well-placed sources in the States say that the machine will go on sale there within the next two months. If that is the case Commodore UK might soon be put together a complete heating bundle for a Christmas release in this country.



MONSTERS UNLIMITED

Possibly the selling of the year (or should that be 1994) of the year?!, Cohen have secured the rights to the Universal monster characters. With Godzilla, Frankenstein, The Mummy and the Creature From The Black Lagoon among the many characters included in the deal, the game to be released game is as yet untried, but will feature all many of the characters, as the in-house team can create it. Featuring a 3D isometric play area, it must the same style as Head Over Heels, the game involves the player in a chase against time to collect the six parts of an ancient crystal and thus unleash the powerful monsters for all eternity. Watch for a soon.



SOFTWARE BUSINESS RAVES IT UP

Amiga newcomers Digital Music are imminently releasing two pretty promising new MIDI music packages called Rave and Prodigy. Rave is aimed at total beginners, and has been designed to make music making both entertaining and spontaneous. On the other hand, Prodigy is aimed at the experienced user, and contains every possible feature



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MERIDIAN INTO OPAL



Meridian Software Distribution, previously known as Precision Distribution, are one of several UK Distributors eagerly awaiting the first shipments of Opalvision. The package, from American-based Centaur, is designed to be a complete 32-bit graphics solution.

Apart from the hardware, which boasts a 768x512 low 32-bit PAL display and features a 16.5 graphics co-processor, there are several software packages included.

Opal Vision seems to have features to match any of the currently available 32-bit packages, with support for BIT and Jpeg file formats, multi and multi palette colour and support for 3D bit images. Also included are an open-driver graphics system and probably the world's first 32-bit game. The Ring Of Korals, as mentioned in CU previously.

A complete range of enhancement modules will be available for Opalvision including a graphics accelerator, a token bus, an input pencher and a separate graphics effects chip called, for some reason, The Kicker, which will apparently enable live image processing when used with the graphics.

What is perhaps most interesting about the unit is that it comes as either an internal card or an external unit, which, it is claimed, will work on any Amiga, including the A4000. Look-out for a review soon.

GOLD DISK'S NEW OFFICE

Canadian-based Gold Disk have yet another product due for imminent release. Gold Disk Office was the most complete integrated software solution when it was released a few years ago. However, most of the component parts around which it was based have undergone major facelifts in the previous six months, so it was about time the office had a spring clean. Office 2 has five components - a word processor, a DTP system, a spreadsheet,

a graph plotter and a database. These units all run separately from each other and are either slightly re-worked versions of the already available Gold Disk products such as Pagecenter.

As the product is still in Beta test stage there is no pricing information available yet, but the test package offered substantial savings as it was being sold at less than half the price of all the component packages.



CHANNEL 5 INTERFERENCE

Attn: viewers who still rely on a modulator to display images via a TV, set may find their viewing interrupted in the near future. The modulated signal usually appears around channel 58 on the UHF scale, slightly above BBC1 (depending on which broadcasting region you live in).

(Unfortunately the new domestic channel, Channel 5 has been allocated a neighbouring frequency. Although not exactly the same, because of the way the signals are encoded, and depending on the strength of the signal, there is a great deal of cross channel interference).

Modulator owners can already suffer from interference from video recorders, which operate on various similar frequencies, but this is only really a problem if both the modulator and video are in close proximity and it is at the same time. In the case of a terrestrial broadcast station the interference will be a great deal worse however, and there is little chance of getting them to turn it off so that you can play Lemmings.

CANON APOLOGY

CU Amiga would like to apologise to Canon UK for our review of the Canon EUC-800 colour printer which we published in our August issue. It's not the review that we're apologising about, but the awful screen grabs that accompanied the piece. Due to technical problems with our in-house scanner, the original colour prints obtained from this printer were badly distorted and failed to show the best of the machine's capabilities.



HERO QUEST 2

Creating first-rate role-play fantasy role-playing games, Hero Quest, has a more than worthy reputation as the pioneer board game and computer game in fantasy. More than a year on, and the Sheffield-based publishers are gearing up for Hero Quest II. The new game, The Legacy of Gorath, goes beyond the confines of the boardgame and introduces a whole range of new characters as well as a detailed combat system. A total of 44 different scenarios are on offer allowing the same scenario view as the first game.



SOCCER PINBALL

One of the most successful 1991 computer's excellent Pinball Dreams game, Cademora's took us through balls on that wonderful 3D's success with the release of Soccer Pinball. Comparing the skills of the elite pin-ball with those of the pinball table, the game features a number of tables each with a football theme, the object of being in control as many goals as possible. Priced at a budget-busting £7.99, we'd love to review more soon.



HISTORY LINE

Just One the art in relation to the success of Battle Line with a new strategy war game set at the time of the First World War. History Line begins with the assassination of Archduke Franz Ferdinand, an event which precipitated the 1914-1918 war. During the course of the war, the player will have the chance to prove his strategic skills on both sides (Allies and Germans), both from 1914-1918 unique units under your control and 16 different battleships. The game also features regular updates on the political events of the time with newspaper reports and historically accurate battle movement periodically. During the course of the war, your commando's constantly moved new weapons, in mass destruction and your strategic plans, strategies and tanks are continuously updated.



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The Swift 2 Series are manufactured after the UK has left the ECU.

This month's offering is Gold Disk's MovieSetter, a complete animation and production studio rolled into one. If you've always wanted to make your own demos, MovieSetter is here to make it easy...

40

COVERDISKS

MOVIESETTER

If you have never seen an animation demo on the Amiga then you obviously haven't owned one for very long. If you have, then most likely you have seen one created with Gold Disk's MovieSetter.

MovieSetter is a utility which aims to combine all the facilities of a real life production studio into one easy to use package. Because the animation is constructed from the basic blocks frame by frame this means that you can get at least a few minutes worth of animation out of even the most humble machine. The advantage of this system over more traditional animation packages like DPaint is that you can edit all the animated strips, or tracks, at any time - just like they do in the movies.

Create backdrops, synch sound effects, overlay animation frames and create your own open row with this amazing coverdisk.



Open animated sequences are constructed from sequences of one-bit strips set in a background.

LOADING DISK 40

MovieSetter comprises two disks in its original form, and yet we have managed to squeeze it onto one disk on the cover, giving you much better value for your hard earned cash. Because the files are compressed, they will have to be decompressed before you can use the program.

Before you attempt to load the coverdisk you should format two disks and name them "CD40A" and "CD40B". To format a new disk, simply insert an unformatted disk into the drive and select "Format" from the Main menu and then name it. The disk will start to spin while it formats, then an empty disk icon will appear on the Main menu screen. You can then remove the disk by selecting its icon by clicking once in it and then choosing "remove" from the pull-down menu (the exact menu depends on which version of Workbench you are running). A test gauge will appear and you just type in the relevant name. If you still unsure about these steps please consult your Workbench manual.

When you have the two disks ready, boot from the MovieSetter coverdisk. A window will automatically decompress the data onto your disks and will ask for each in turn. When the sequence appears asking for one of the disks, insert the relevant volume and press return. The data will automatically be written to the disk. When the operation is finished you should remove the coverdisk and insert the first disk (CD40A). Repeat your machine using CD40A, Amiga-Argos and the new MovieSetter will auto-boot. Once loaded, you'll be asked to enter a protection code - we've printed the relevant code on the next page. Simply look up the right word and type it in.



Each set is animated individually. Backgrounds are sequentially drawn in every frame, an editing screen.

Gold Disk's MovieSetter!

See the Cinema 400 in its own right with complete animation and production facilities. Gold Disk's MovieSetter is a complete animation and production studio rolled into one. If you've always wanted to make your own demos, MovieSetter is here to make it easy...

See the Cinema 400 in its own right with complete animation and production facilities. Gold Disk's MovieSetter is a complete animation and production studio rolled into one. If you've always wanted to make your own demos, MovieSetter is here to make it easy...

GETTING TO GRIPS WITH MOVIESETTER

MovieSetter is an animation and video program which allows you to create your own animated cartoons in only minutes. If you've always wanted to produce your own demos, then now is your chance. Gold Disk's program gives you total artistic control over the entire production with full editing features available at every step.

If you don't like the way your video is shaping up, an entire character can be added, moved or eliminated with just a click of a mouse button - it really is that simple! MovieSetter treats the user from the designers that was once associated with the art of animation and lets you spend the time on the creative process itself.

Here are the main powerful features that are available in MovieSetter:

- Stereo digitized sound.
- Backgrounds scroll horizontally and vertically.
- Full control over multiple audio cycles.
- Number of tracks only limited by RAM available.
- Tracks can be placed in production with a click of the mouse.
- Timing adjustable anywhere in your movie.
- Frame accurate editing.
- Frames can be copied.
- Tracks can be shifted in any direction.
- Tracks can be attached to guides for automatic spacing.
- Movies can use the television area.
- Fully featured editor not included.
- Backgrounds can be "pegged" onto the screen in many ways.
- Cut and paste tracks and sets.

Your finished productions can be played back easily in real time. They can also be recorded onto video tapes or transferred to disk using the fully distributed MoviePlayer (also included on our coverdisk).



The background can also be animated by various scrolling and wiping effects.



Here is what you will find on the MovieMaker disk.

OVERVIEW

Fortunately, creating simple animations with MovieMaker does not require a complete understanding of the program. More sophisticated operations, however, will require a knowledge of how MovieMaker's various elements interact. You can read through the tutorial quickly for now, but you may want to come back to it after you have completed the tutorial which appears later on. All MovieMaker Productions begin with PIP pictures built as three frames in *Object*, *Picture* and *Frame* forms in MovieMaker's Backgrounds and Flows. Backgrounds always reside at the back of your screen, and nothing can ever be obscured by a background. A background can be as large as full video resolution (640 x 480 pixels), although editing is done on a normal 640 x 480 screen. During playback, the entire background is displayed. Backgrounds may be cropped either vertically or horizontally, and are independent of other elements within the scene.

The second type of picture is a *face*. A face is a single image of an animated character or object. A face is a collection of related faces in a logical order. For example, a set would contain all of the positions required to make a character walk, each face representing a snapshot of the walk. If all of the faces form a set of a character walking were painted on clear plastic cards and laid out on a table, it would resemble a strobed view of the character's movement. Stacking the cards in a particular order and flipping through them quickly would give the effect of animation. Changing the order of the cards would affect the movement of the character, and skipping some of the cards would affect the timing of the set.

SET EDITOR

The Set Editor allows you to create the tools with which you will make your movie. While the order that faces are placed within a set does not constrain you in any way, it is convenient to have the faces follow a logical order. The set editor allows you to preview your set, animating the faces in the order that you created them. Your MovieMaker package comes with pre-made sets, so it is possible to create movies without entering the set editor.



The set editor allows you to step through the frames and to see the sequence control and timing.

LOADING A DEMO PRODUCTION

Completed animations are saved as 'Productions', which can easily be loaded in to MovieMaker for editing.



Once you point to load in the demo production.

GETTING STARTED

Once you have loaded MovieMaker you may like to take a quick look at an example production. Use the menus at the top of the screen and go to the far left one, called 'Production', and choose 'Load'. A requester will appear which is your prompt to select the Demo file. Make sure the CPU Chip set disk for MovieMaker is in a disk drive and select the Drive gadget such as DFD or DFI. Click on the drawer named 'Productions' and then double click on the file called 'Demo'. It should now load without further ado.



Double-click on the demo prod to automatically load in the Demo being set.

Somewhere on the screen is a small requester which looks similar to VCR buttons. This is the Player Control window. The icons work the same way they do on a video recorder, so click on the play button and watch the Demo production. Hitting the space bar stops the production.



Each set can be entered simply by clicking 'Load' making it almost the default.

PROTECTION CODES

page	line	word num	word
1	5	0	like
5	9	1	related
6	6	6	necessary
7	7	4	loaded
8	2	11	movie
9	6	7	picture
11	2	2	order
11	10	3	editor
12	5	5	changed
13	3	6	create
14	6	5	will
15	4	4	for
16	4	4	menu
17	3	3	speed
18	5	7	copying
20	6	4	name
21	7	2	manual
22	3	6	input
25	4	1	effective
27	4	3	specific
27	7	9	each
28	1	2	criteria
29	3	4	displayed
30	3	5	observed
30	3	3	what
31	5	6	read
31	6	2	would
32	3	5	one-by
32	4	4	pinning
33	4	5	randomly
33	3	2	return
36	4	6	are
37	3	2	showing
37	4	2	postings
38	3	8	until
39	3	5	expect
39	3	8	filled
40	3	5	that
40	3	11	series
41	4	1	the
46	4	5	number
46	7	5	click
47	3	6	into
47	7	4	read
48	4	3	motion
48	6	7	colliding
49	3	2	position
49	8	9	center
50	3	2	current
50	4	6	points
51	3	2	loaded
52	4	4	and
52	4	6	close
52	9	1	picture
53	7	7	results
53	5	3	low
9	4	3	quickly
7	5	5	parts
14	2	2	special
19	2	4	started
21	4	2	from
25	2	6	elements
1	3	3	minutes
26	2	4	quality

Using the set editor, however, you can create new sets from existing ones by taking advantage of its editing tools (e.g., moving, rotating).

SCENE EDITOR

The Scene Editor is at the heart of MovieMaker. The highly interactive nature of the Scene Editor allows you to view productions as they will finally appear while you are creating them. The first step in creating a scene is choosing a background (though it may be changed at any time). If you were creating a scene by hand, you would start with a painted background. At your disposal would be stacks of dyes painted on a clear plastic, each stack representing a set. You would create the first frame of your movie by unrolling a single sheet from each set, with the background showing through the plastic, either as image was painted. You would continue to do this for the length of your film: a tedious, but inherently simple operation.

FRAME BY FRAME

MovieMaker marks in almost the same way except that you create the movement of each character completely before starting the next. If, for example, if you wanted a dog to run across your background, created by a cat, you would first create a track from your dog (or, in all positions of a dog running) by starting at the left edge of the screen and clicking



Using the supplied Hot Art Mouse set help!

your way to the right edge. MovieMaker automatically adds frames as you create the dog's movement, and updates through the set faced in the order that you created them. If it took twenty clicks to make the dog run from the left side to the right side of the screen, twenty frames will exist in your movie. A track contains much more information than a set. A set is simply a collection of images, a track is an ordered collection of faces from a set, with screen position and depth information.



Now it's get frame data to get added.

To add the cat's track, you would step through the movie to the point at which the cat should logically enter and click out its movement using the set list. When creating the cat track, the cat is automatically "locked" in front of all other tracks in the current frame. This may be changed later. If you wait, when the track has been completed, MovieMaker is wondering what you see is what you get, while creating the cat's track, the dog is still visible. When adding to your movies, you always see what you have previously created, making animation as simple as moving the mouse and clicking.

This concept of creating tracks parallels that of the multitrack studio used in the music industry. A single musician may play several instruments in a song by recording them as separate tracks and then overlaying them using a mixer. The Scene Editor is essentially a mixer that integrates sets into tracks and overlays them to create scenes.

A conceptual complication of tracks is that it is only possible to view a single element of a track in a given frame. Tracks start at one frame and at some time later, and a given frame is a snapshot of the track as it interacts with other tracks in the movie.

EDITING TOOLS

MovieMaker's editing tools have been designed to make changes in an entire track, or a single track element fast and easy. For example, an entire track may be repositioned by simply moving a single element within the track. "History" allows you to view track elements from previous frames in the current frame (a simple effect).

Whole tracks must exist many frames. Events are observed not only from one and initiate an action. There is no limit to the number of events that can occur within a movie. A background change updates the background with a new picture but does not affect the tracks in that frame.

A sound event begins in a specific frame, but ends some time later (depending on the length of the sound) and the complexity of the movie. A sound event causes the sound to change and another picture event or background change occurs. Other events are background scrolling, using color cycling, and keys.

While all of this may seem complicated now, you will see in the tutorial that all of these actions may be performed by the simple act of moving the mouse and clicking!

TUTORIAL

This tutorial is designed to clarify the terms and to introduce them to background, track, event, and help you create your first animation. So buckle up and let's go for it!



The Window contains the window. Supply face frame changed (shown on the scene background).

CREATING A PRODUCTION

Let's create a simple production of our own using some of the play list that comes on the CD. However, before we load any of the individual elements, let's select Project/Clear to clear anything that already might be in our production.

LOADING A BACKGROUND

The first thing that you should add is a background.



Loading a background from the Event menu into the background window.

Go to the Event menu and choose Background. This will bring you to the Load Background window. There are a series of backgrounds in the Backgrounds directory on the disk with the MovieMaker. Double click on the one called "background01". This will automatically load in the first frame. This sets MovieMaker to change backgrounds at the first frame. Unless we add another background change event, this will be the background for the length of the movie.



The video window. Double-click on the Event menu to load the background.

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AIR WARRIOR



Before the background appears, MovieDirector shows us to choose a wipe effect for the background. This wipe will take place when the background enters our production. The wipe requester will appear, and ask us to select the type of wipe that we want to use. MovieDirector comes with many special wipes built in. If you choose "None" there will be a direct cut to the new background picture. (Since we are in the first frame of our movie, select "None". The background for your animation will now appear.)

CREATING A TRACK

Our background looks a little better, so let's spice things up a little by creating our first track. Remember that tracks draw their imagery from sets of frames. MovieDirector comes with pre-drawn sets so we won't bother to create one from scratch for this animation.



What you could see after loading the featured background.



Click on **Select** from the file menu to check out the disk contents. Also it shows what's previously been loaded.

Go to the Track menu and choose **New**. Now let's MovieDirector know that you are going to add a new track. This will bring you to the **Set Load** requester. There are a series of sets in the "sets" directory which are again on the CD-i soundtrack. Double click on the pre-called "Bouncingball". This will automatically load that set in from the disk. You will now have a small "bouncing ball" attached to your pointer. This is the object that we are going to animate.



Bring the window left so the current frame doesn't cover the legend pane.

Move the pointer to the far top left of the background. The real power of MovieDirector is that every time you click the left mouse button, the current object gets placed onto the current frame.

This process is called **slamming**. Every time you stamp, the set data advances by one frame. This set was created to make Bouncing Ball look like it's rolling. Let's try it.

Slam out a few frames in a path from the top left corner to the center of the road. Slam out a few more going in a path from the center to the bottom right of the background. To complete the track, hit F10 on your keyboard or hold down the Control key when slamming in a last frame of the track.

PLAYING A PRODUCTION

When your work is play your production use the **Player Control** window.

Select the **Start Movie** gadget to "reset" to the first frame of the production. Select the **Play Forward** gadget to play the production. Press the space bar to stop the production at any time.

ADDING A SOUND

Let's add a sound to give our production a real "wow" feel. There are a number of great sounds provided for you on the CD-i soundtrack. Pressing the **Production** Using the **Player Control** window, step through the frames until you reach the frame where the **bouncing ball** is bouncing off the road. Choose **Sound** in the **Event** menu. This will take us to the **Sound** requester. Double click on the sound called "Bong" to load it into the production.



This is what the sound control window looks like.

Before the sound is loaded into the production we are placed in the **Sound Control** window. We'll return to the special sound effects that can be pre-formatted here later, but for now just click on the **Event** button. This tells MovieDirector to play the "Bong" sound when it reaches this point of the movie. To hear the sound without creating an event, press the **Play** button. Remove the sound control window by pressing its close gadget (like closing a window on Workbench).

IF YOUR DISK WON'T LOAD...

In the unlikely event of your CD-i disk not loading,

remove all cartridges and peripherals and try again. If it still won't load, pay it to an exchange

and send it to: CD-i DISK RETURN, 94 000,

100 YEARS INDUSTRIAL PARK, PONTYPOOL, SA

GUARDIAN, 2700 000. They will then test your

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For any urgent problems, though, please ring the

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11:00 during weekdays. While CD-i 4000 makes

every effort to check our *Soundtrack* for all known

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ble damage caused by viruses which may have

occurred on this disk.

Play the production again to hear the new sampled sound. Sound adds an extra punch to any MovieDirector production. (Imagine a huge Bouncing cartoon without sound—yeah!)

CHANGING THE TIMING

Changing the timing lets us slow down or speed up the production. MovieDirector works on a scale that breaks every second down into 60 parts. (Actually 50 in Europe because we use a power supply rated at 50Hz, not 60Hz.) The default setting for MovieDirector is 5000 1 or 0 frames shown by the player for every second of real time. The timing value tells MovieDirector how long to delay between each frame. For this example, let's slow the film down to a frames per second.



In timing window. Use the table for more information about timing figures.

TRACK EDIT WINDOW

The way to get your sets actually animated on the background is by creating a track. The **Track Edit** window contains all the controls for bringing life to your sets.

Select Track: Chooses the pointer icon and then selects the face which is in the track you want to edit.

Move Tracks: Use this to reposition the current track as a whole or just the visible track element.

Insert Elements Before: This creates new elements in the currently selected track before the current frame.

Insert Elements After: The same as **Before** but this inserts the new elements after the current frame.

Track Behind: Moves the currently selected track back one position in the current frame. Double clicking on the last position of the current track behind all other tracks in the frame. Holding down the ALT key will perform the operation back the current position in the track to the end.

Track in Front: The reverse of **Track Behind**.

Copy Track: Copies the selected track into the paste buffer.

Get Track: Copies the selected track into the paste buffer and also removes it from the production.

Paste Track: Places the track currently in the paste buffer into the production at the frame and location of your choice.

Change Face: This changes the face that is visible in the currently selected track. Use the next or previous arrows on the icon.

Go To Beginning Of Track: Jumps to the frame containing the first track element of the currently selected track.

Go To End Of Track: The same as above but this time it jumps to the end.

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Draw your own sets, change the color of the disk or load some artwork another way, perhaps.

We can now call up the disk menu and use him as an animated figure in our Movieclips productions. You may want to experiment on the set since you have a permanent copy safely stored on a disk. However, you'll be in the beginning of the set and use the fill control to fill in stick men's head. Add hands and feet, perhaps a moustache or a hair belly. Try drawing a face on him as well. Pressing the set often to make sure that the animated set is functioning the way that you intended it to. Remember that if you stop up when you are drawing you can use the Undo tool to remove the last mistake. If one of the faces is beyond repair you can delete the current face by selecting the Erase tool.

SET CREATION FROM IFF FILES

There are other ways of creating faces that make up an animated set. You may find more comfortable using one of the existing image paint packages such as Deluxe Paint. If you have saved all the original pictures, as IFF pictures or brushes, you can load them directly into the set editor bypassing the built-in drawing tools.

SETS FROM PICTURES

If you have more than one face in a picture file, Choose Faces' from the Set menu. Type in a new set name. Select the load custom brush from disk tool. When the requester appears, select the correct path and picture file.

The picture is now loaded into the clipper. Use the rectangular or freehand brush tools to select the area that you want to place in the drawing area. Remember that you can resize the window and move the picture around with the left mouse button if you need to. Clip the area and stamp it into the drawing area. Select and place the registration mark.

Select load custom brush from disk to return to the picture in the clipper.

Repeat the last three points so many times as you want to. You can clip from more than one IFF picture if you please.

Choose Save Art from the Set menu to give the new set a name and save it to disk for safe keeping.



Work place your hands of working together to get you started.



The set editor graphic tools and their keyboard equivalents.

SETS FROM BRUSHES

If you want to use IFF brushes as the faces in your sets:

Choose New from the Set window. Type in a new set name. Choose Load IFF from the Element menu. When the requester appears, select the correct path and picture file. The picture is now loaded into the drawing area. Movieclips loads it automatically into the upper left hand corner.

Select and place the registration mark. Select Add a new element below to add more to the new face in the set. Repeat the last three points so many times as you want to. You can load as many IFF brushes into the set as you want. Choose Save Art from the Set menu and give your new Set a name and then save it to disk.

ALTERING AN EXISTING SET

Sets that have been saved can be loaded up at any time and changed in the set editor. Let's do some quick alterations to one of the sets that's already in the disk. Choose Load Set from the Set menu. Select the flying, bear set and load it in. Flying, Bear now appears in the drawing area. Use the Preview tool to scroll through the animated set. When you are finished return to the first face. Add an outline ellipse to the outside of the ball. Go to the first face and add a new ellipse of a smaller size. Keep advancing through the set and adding smaller and smaller ellipses until you reach the end.

Preview your new set. With any luck your ball should now have a sort of 'beard' look to it. If not, load it back in and try again. If it looks the way you want, save it to disk under a new name such as 'flying, Atomic' or something. Try adding a face, antlers or even feet to the ball. Load up and go wild with your imagination.

You can also make a duplicate of a set by selecting Get Copy. If you have made a copy of a set named 'flying', you would end up with a copy named 'flying Copy'. Finally, to return to the Source editor, select Set Back from the menu.

Altering existing sets has a lot more uses than the couple mentioned here. Just loading in and rescaling old sets will give them a new feel. You can save sets at different stages, allowing at regular intervals with any software package. It is a recommended action, but in case of a power failure or a system crash.

NEXT MONTH:

The fun continues next issue when we get on to more advanced animation techniques and explore the program's full capabilities. Be here in 30 for the lowdown.

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Logic's *Leviathan*, Shamus Southern, comes up trumps this month as he reveals our exclusive Amiga version of his old C64 blaster classic, *Prod*. We also present a playable demo of GEM's platform brawler *Tom*, Gary Tan, while Russell "STW" Stivers gives us *Q*bert* close, *Q*bert*.

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COVER DISKS

POD - FULL GAME

Before he made his name on the Amiga scene with the excellent *Leviathan*, Shamus Southern was one of the most renowned budget games writers on the good-old C64. Starting with the classic Klugeport motorcycle series, he then produced a blistering shoot-'em-up which soon attracted something of a cult following. That was, C64 Amiga is proud to present Shamus's Amiga conversion of the game which kept thousands of C64, C65 and Amstrad owners busy - *Pod*. Yep, that's right, once we finished our eyes on the polished shoot-'em-up, we reached for the ol' cheaper book and promptly bought the publishing rights to the game. Over the next few months we've got a whole host of full-weight games on offer, some new versions of old classics, others totally original games that wouldn't look out of place on the shelves of your local software shop.

Pod is an incredibly fast-paced game set in the timeless void of space. Your circular craft is positioned on an electronic grid which is suspended in space providing a surface for intergalactic combat and to engage in battles. The tiny craft is restricted to moving along the power lines of the network, but can shift anywhere on the screen, providing there's an available route to the desired destination. The joystick conveniently handles allows you to zip around the area at a blistering pace, which you'll be all too glad of when the scores of alien invaders start to circle your ship.

There are sixteen different modes of alien craft, and each features its own attack pattern. The wave-craft formations swirl all over the place and, in later levels, they fly and match their faces and begin to spew forth an incredible amount of fire for maximum confusion and devastation. Not content



with this, the invaders also have one more trick up their sleeves. If aliens have planes, that is, when you do manage to blast one, the resultant explosion takes away a portion of the grid with it, which prevents you from moving over the damaged spot. All is not lost, though, as the grid will repair itself, albeit quite slowly when there is a lot of damage.

You start the game with three levels, but are awarded an extra one after each level is completed. There's no need to fill all the skins as they have a time limit imposed on them and will explode when it reaches zero. It's a real test of reflexes and coordination, and you won't find a faster game to play anywhere.

Altogether, there are 100 levels to blast your way through, each one more difficult than the last that preceded it. We doubt very much whether anyone will reach the final stage, but if you do, send us a screen grab and we'll give a small prize.

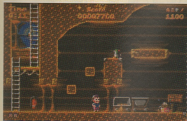


to the first to do so. If, on the other hand, you've got the playing ability of Steve Nissen (i.e. none whatsoever), then we'll be publishing a cheat to the game next issue which will instantly give you access to all 100 levels. Until then, happy blasting, and watch out for more full games from Cui Bona! very soon!



LOADING DISK 41

Simply place the coverdisk in your drive and turn on the power. You'll then be presented with a choice of five game covers: *Prod*, *Star*, *Garth*, *Tom*, *Mr Wibble* and *Blaze*, so just select the one you want to play. Your menu should load up almost instantaneously, but in the unlikely event that it doesn't please direct all enquiries towards PC Wipe, whose number can be found elsewhere on the coverdisk page.



CATCH 'EM - PLAYABLE DEMO DISK

Catch 'Em is a fully playable, multi-stage romp of massive proportions. It's slightly reminiscent of those old Q*bert's Watch! affairs you see displayed in toy shops, but its simplicity belies some extremely fast-paced action.

Hundreds of levels are teeming around your home town-leaving havoc and mayhem. Cast as the local monkey catcher, it's your responsibility to

capture the escapees and return them to their cages. The monkeys are not easily caught and, although a few can be stopped in their tracks with a quick bunt on the head delivered from a bat, others have to be distracted with yells and the like before you can sneak up on them and bash them on the pom-pom—it's certainly not a game for them born or Greenpeace. I'm afraid to say, if you can't find the relevant piece of entertainment kit for the cooking job, a quick visit to your next-night produce



the correct item. It also holds spare essentials like baseball bats and spring poles, which should make your unenviable task a little bit easier. One word of warning, though, the objects at your disposal don't last for ever, so speed is of the essence.

Another winning factor of your task is that the funny friends aren't totally defenceless either and, apart from coming in a variety of sizes from chimp to fully grown gorilla, they also tend to leave banana skins everywhere causing your on-screen alter ego to slip and land flat on his back—wasting valuable seconds. Each round is played against a strict time limit, and whilst



progress around the screens is speedy, the Catcher should use the semi-randomly placed platforms to reach other parts of the screen...



Q*BERT - FULL GAME

Q*bert could quite easily be coupled with such computer classics as Tetris and Pacman. Not only is it extremely simple, but it's so addictive you'll have to rip your hand away from the joystick in order to enable with all the other fantastic stuff we've compiled on this month's cover disks.

The game is loosely based upon the arcade classic, *Football* (Atari 2600), and has been written by Pamela Wasson. Pamela's no stranger to writing classic games on the Amiga and a few of his most recent creations are Silkworm, SWY and Roadman. Then today, after an illustrious line of brilliant shoot 'em ups, Wasson will claim *Football* to be his favourite.

The idea is to guide a lobby line sports around a three-dimensional pyramid by hopping from

square to square and lighting up all the cubes in the structure. There are 25 squares to light in every pyramid and every square must be occupied in order to make it to the next level. Some of the blocks in future stages have to be lit on more than once and the 3D perspective coupled with the ready-made and coded makes it progressively harder to reach the next stage.

It all sounds very simple, but Pamela has included some devious tactics to compete with your skills. Bubbles roll down the pyramid from top to bottom, whilst other similarly-shaped creatures may roll down AND move from side to side. One gove even hatches into a snake and can spring both up to the top in order to pursue you. Only by using some incredible joystick combinations and

jumping out of danger will one of the teleoperation disks which live the side of the pyramid will you complete every level.

Amazingly, Wasson has chosen to release Q*bert onto the bulletin board circuit, and is not hoping to make any money out of the venture. However, if you enjoy playing the game, it's probably only right to reward him with some kind of monetary sum.



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Screen shot from 'The 35th HT-10'

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MR WOBBLY - FULL GAME

The full title of this game is Mr Wobbly Versus The Invaders. From Space and there's no price for guessing that these famous pixelated alien bugs are going to make an appearance in here somewhere. Conquering Mr Wobbly you must run from one side of the screen to the other to collect a token which will award you with a feature necessary to combat the alien menace. Mr Wobbly must then run back to the other side, avoiding the ever-increasing damage of Space Invader fire to find the huge switch that produces another bonus for you to collect. Repeating the process a number of times rewards you with a variety of features that will be strapped onto your traditional craft for the

blast that follows. The more tokens you collect in this fashion the more chance you'll have of living through to the next round. The frantic desktop action coupled with great sampled sound effects

are what make this game so addictive. We know it's got pixel graphics, and the whole really doesn't need another Space Invader clone, but this is great fun!

**MAZE - FULL GAME**

Ever wondered how and when around Hangman? Count Maze? It isn't, then you can do us in the privacy of your own home - and if you get totally lost at least you can switch off your Amiga in frustration!

Maze is (surprisingly) a very fast moving 3D maze (never's) game. The idea of the game is to try to get out of the winding labyrinth as quickly as possible using as few moves as you can. Use the arrow keys on the numeric keypad to move around the maze. You can select different maze levels from the menu running at the top of the screen or even get the computer to complete the maze for you whilst you watch.



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DIY

best way is to use something designed for the job—like a 40-way IC header, with ribbon-cable. Unfortunately, these are a little difficult to get hold of and so some cunning is required. By taking each pin out of the OS, soldered in turn and bending the last which normally holds the IC pin in place is the trick, you can splay the legs out far enough to allow them to be soldered directly to the motherboard. It's not a very elegant solution, but it works. Figure 23. You might like to try using some special 40-pin 10-pin OS sockets, which should have long enough legs to pass through the board, be soldered and still fit into the motherboard socket. It all seems a bit like Peter, but the best hardware projects always are.

Once you have finished with the three sockets, it's time to start soldering the wires into place. The wires must bring pin 1 of ROM1 to pin 1 on IC1 (pins 2, pin 2 of ROM1 to pin 2 of ROM 2 and so on). The only exception is pin 18—don't solder any wires there yet. The wires are not shown on the diagrams because they would clutter it up too much, so some of your common sense is required at the point. Remember to use long enough pieces of wire to allow both ROMs to be placed in their sockets. Use Figure 6 to sort out the pin numbers.

Now longer wires need to be soldered to the main board and brought to a switch. The switch must be a special type (not just On/Off), and must have a little wiring done to it. See the diagram. When the solder has cooled, fit the ROMs in their sockets. One ROM will come from the Amiga motherboard, the other from the handy mail-order ROM stocker. Use a gentle twisting action with a screwdriver to obtain the first ROM, and any major twist will void the second. Or should that be the other way around...

In any case, when separating them into place, make sure that none of the legs have been instead of fitting into the socket. If they have, bend them gently back into shape. The pins are flexible, but they're not like Captain Jack's prosthetic limbs! Check out the reaction on BBC2. Or you might end up paying for another ROM.

Plug the board into the gap on the motherboard. For some reason (a dead and expensive one!), some Amiga ROM sockets have 40 pins instead of 40. If this is the case, keep the two pins nearest the back free. Check the white wiring stamped on the motherboard near the socket for more details.

Switch on if nothing happens, switch off immediately and check everything thoroughly. Try flipping the switch (with the power off), and seeing if that makes a difference. If it does, one of your ROMs is working, the other isn't; check the wiring, if the floppy disk drive makes grinding noises, you have either the ROM loader or the ROMs themselves in upside down!

You may want to make a small hole in the Amiga's casing to mount the switch. Leaving it is dangling out or the side of the machine isn't generally a good idea.

HOW IT WORKS

All memory chips have a controlling signal called the Chip Select (CS) line. Whenever this signal is made low (i.e. grounded), the chip springs into its



Note the connections to shorts and then back back. The wires are not shown but work like this long wire.



This side has a coloured IC socket to fit the standard IC of the board. It's better when the board is soldered.



OPENING UP YOUR AMIGA

Some projects will require you to strip the Amiga down to the motherboard. If you have an Amiga 1000, 2000 or 3000 this is a very simple matter and consists of removing four of the screws and ignoring the case. On the 4000 and 6000s, that may be a bit too bad.

1. Disconnect everything, and I mean everything. Leave the slot when it's empty.
2. Place the Amiga face down on a towel, on a clean, level surface.
3. Loosen the screws of the fixing screws around the perimeter of the plastic casing. There is another screw under the silver slider at the top.
4. Say a brief prayer for your warranty. It's about 10p.
5. Depending on the type of fixing screws used, you will either need a screwdriver or a small screw.



Depress them - how to break open a 30, socket to complete the connection between the board and the board.



Note the position of the switch on top. When you get the switch on the wrong side, it will often do nothing or it will do something unexpected - make sure you get it right. Let it be with everything. It's important to get the switch in the right position. Remember the board is upside down.

and returns the data it is asked for. If the CS line is left high, the chip is in a special 'turned off' state which ensures it is totally immune to the rest of the system.

Since the Amiga normally only has one ROM, the CS line is to be low all the time. However, to connect two ROMs, we will need to find a way of changing between them. If all that pins - with the exception of the CS line - are common, switching is nothing more complicated than making sure when one ROM's CS is low, the other is high - and vice versa.

Most of the hard work in our design is carried out by the CMOS circuit, which is why it is essential that you wire it correctly.

6. Strip away a pair of long-headed screws and gently lift the top of the Amiga.
7. Remove all screws from the removed. Leaving the Amiga face down and the top of the Amiga removed to you. If you have the Amiga removed to you, it is the top of the Amiga.
8. Loosen the screws of the fixing screws around the perimeter of the plastic casing. There is another screw under the silver slider at the top.
9. Loosen the screws of the fixing screws around the perimeter of the plastic casing. There is another screw under the silver slider at the top.
10. With the Amiga open, look at the Amiga's top of the Amiga. Before you remove the Amiga, look at the Amiga's top of the Amiga. Before you remove the Amiga, look at the Amiga's top of the Amiga.

DIY

PROJECT 3: AUDIO AMPLIFIER

Solution: **AM02,
\$60.00/60.00/60.00/CTTV**
Difficulty: **Hard**

INGREDIENTS

- Vero-board (15 strips by 17 holes)
- 2 1/4Watt audio strip ICs
- 2 1/4Pin DIN, IC sockets
- 2x100kOhm resistors
- 1x10kOhm logarithmic potentiometer
- 2 Polyester 0.001uF (micro farad) capacitors
- 2 IC-mounting 225uF (micro farad) electrolytic capacitors
- 2x100m loudspeakers (e.g. cheap pre-mounted car stereo speakers)
- 1 Simple single-throw switch
- 2 Phone plugs and audio cable
- Connecting wire 19V battery & clip (or transformer)
- Box Knife
- Four self-adhesive non-slip rubber feet.

INSTRUCTIONS

Cut the vero-board to size with a hacksaw or sharp knife. Glue holes in the copper strips where not soldered in the diagram. Make sure that no shunts of copper remain, or a short circuit will occur.

Insert the IC sockets in place, and using their position as a guide, solder in the rest of the components and connecting wires. Take long leads



Here layout for the audio strip. Again "0" indicates where to be cut. Remember to solder in the various feet.

from the circuit to bring to the power supply (battery or transformer) - a battery is best to avoid any mains hum, audio inputs, and audio outputs. Both audio inputs come from the Amiga and are connected across the potentiometer using screened audio cable. Remember to cut the phone plug covers on the wires (before soldering them). The inputs to the amplifier circuit are taken from the central pins of the potentiometer (see diagrams). No other connection to the Amiga is required.

The switch is connected in line with the power supply. You might like to add a small LED (optional) by using a DIPDT switch) to remind you that the power is on. Solder it if the amplifier is not connected to the Amiga or speakers. If the battery is connected power will be used. The loudspeakers can be connected directly via their cables to the circuit board, but it may be better to use some 3.5mm pins and sockets. This will also provide a little more portability. Mount everything in the box, after wiring holes for the volume control, switch and power-on leads. Stick rubber feet on the bottom of the box for a professional finish.

HOW IT WORKS

The two chips are practically complete audio amplifiers. We just need to add a power supply, a volume control, an input signal and a pair of speakers. The rest is handled by the silicon chips!

The connections were complicated, but there are other circuit than if you are getting wires together it is easier to make things correct. When done they are convenient to be put in a circuit.



With so many off-board connections you'll inevitably get something wrong so it's better to do it right!



Always put the solder heat systems and to avoid damaging them it's a good idea to ground yourself before touching them.



What style do the wire strips mean with the traditional test leads. There's a good reason for this - it's not that much more than 11...

PROJECT 4: LIGHT SENSOR

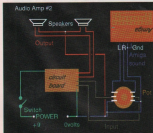
Solution: **AM02,
\$60.00/60.00/60.00/CTTV**
Difficulty: **Tricky**

APPLICATIONS

- * Simple alarm - trips alarm when beam is broken.
- * Get your Amiga to make you up when it gets light.
- * Use your Amiga to time moving objects.

INGREDIENTS

- Veroboard (at least 11 strips by 18 holes)
- Light-dependent Resistor (LDR)
- 8C177 Transistor (Miniature DIN, relay (single pole, 5 volts)
- 10k Pot (10k Ohm) (10k Ohm) (10k Ohm)
- 1x10k Ohm, IC socket for the above
- 100k preset resistor
- Connecting wire
- 9-pin D-type joystick socket
- Power supply



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DIY

INSTRUCTIONS

First cut the enclosure in two. This is best done with a hand saw, although if you repeatedly score the board with a very sharp knife and a steel rule you will eventually (a) cut yourself, and (b) be able to snap the board in two.

You won't need to make any holes on the back side for this project, so you can start soldering straight away. The best component to start with is the resistor for the miniature relay. Once this is in place, the position of the other components can be more readily seen, when soldering the transistor. Keep the heat to a minimum. Ask someone to hold the transistor's legs in a pair of pliers to transfer some of the heat away.

The LDR may be put on the end of a tongue of masking wax. If you prefer, a small cylinder made from black insulator tape will help to link the LDR to the only a direct beam makes a difference to its resistance.

Connection to the computer is via the spare joystick port. It might be possible to take power from the port, but I recommend that you use a separate supply, such as a battery eliminator transformer, which will provide 5 to 6 volts. When connected, you will need to calculate the current for the amount of light falls. The small resistor should be adjusted with a screwdriver until the relay just clicks when light falls on it.

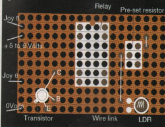


It should be noted that the wire necessary for this project as there is not a lot of wire in the kit.



The kit comes with wire for connecting to a battery, although you must attach a similar switcher power from the design.

Light Switch #1



Light Switch #2



Light switch #2 is a step up, a steady beat and with some extra wiring for the relay.

Using the Light Switch from your favourite programming language is not difficult - you just need to be able to read the joystick port. All BASICs provide functions for this, as does AMOS and most others. Our light switch is connected to the "UP" button, but you could connect a different switch to each of Up, Down, Left and Right if you want. The world's first light-sensitive joystick!

HOW IT WORKS

The relay-delay timer IC, basically relay replaces the microswitch used in a joystick. It is switched on and off by current flowing through the transistor. This transistor is itself acting as a switch, and will only turn on when the current into its base terminal reaches a certain level. This level depends on the LDR, whose resistance changes depending on the amount of light available. The preset resistor (really a miniature variable resistor without a knob) is used to balance the light and control exactly how the LDR must change before the transistor becomes active.

THAT'S ALL, FOLKS

Well, that just about wraps it up for doing it yourself. We will be continuing to publish projects

SOLDERING

Soldering isn't difficult - soldering easily and quickly just takes a little practice. The trick is to ensure that the pads you are soldering are well connected before you start. For a start, use the wire around the component. For a complete soldering, heat the wire until it has melted through the hole.

1. Be as quick as you can. Heat can damage components. As apply the heat for as short a time as possible.

2. Use as little solder as possible. The more solder you use, the more chance of it spreading all over your circuit and short-circuiting.

3. Use the wire for the solder.

4. Use 60/40 solder. They will produce and run faster in other solder before it is the way.

5. Use a brush when soldering critical components (transistors, diodes, etc). One way around this is to use the wire being soldered to short-circuit the wire.

6. Don't bother for a perfect heat length and width. It tends to be a "big point" which will not conduct electricity very well and could cause all sorts of problems.

7. Clean the lot after every job, applying a little water (washing the lot) just before the end.

8. Use wire before soldering them, by allowing a small amount of wire to flow into the solder.

in the future pages, with upcoming specialists like a period, and even an accelerator card. If you have any projects of your own, send them in.

One last thing, remember that any alterations you make to your machine are your responsibility, so think carefully about what you can do with that machine and how fun customizing your Amiga.





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Anco score heavily in the generosity stakes this month, by giving us four A570s CD-Rom drives for our scratchboard competition. And if that wasn't enough to whet your appetite, 200 runners up will each get a free copy of Kick Off 3, while barrow-loads of readers could soon be mailed a specially discounted copy of the new game. So, reach for your pennies, grab your scratchcards and get scratching!



HOW TO USE THE SCRATCHCARD

On the cover of this issue is the key to winning one of the above great prizes – just scratch away one of the panels to see what you've won. On the other side are the details of how to claim it. Here's how it works:

- Scratch away each of the panels to reveal the messages underneath.
- The card may reveal an A570. If this is the case, then ring the number. You will have either won one of 200 copies of *Amiga Kick Off 3* or a discount on their latest footballing epic. Once you know what you have won you must follow the relevant instructions.

If you have won an A570, you must fill in the back of the card and send it to the Editor, Dan Slingsby BY RECORDED DELIVERY to CU Amiga, Priority Mail, 30-32 Farringdon Lane, London EC1R 3AU. We will get in touch and organise the delivery of your prize.

If you have won a free copy of *Kick Off 3*, send your card with your name and address

filled out on it to TRACEY WOOD, AMCO, 4 WESTGATE HOUSE, SPITAL STREET, SOUTHBORD, KENT DA1 2EL. Anco will then verify your claim and your game will arrive within 28 days of the closing date.

Normally, *Kick Off 3* would cost you £24.99 but it's available to you for £5 less, so if the message reveals that you have won a discount on *Kick Off 3*, send a cheque or postal order for £19.99 made payable to Anco, along with your filled-in scratchcard, to TRACEY WOOD, AMCO, 4 WESTGATE HOUSE, SPITAL STREET, SOUTHBORD, KENT DA1 2EL. Anco will then verify your claim and your game will arrive on the day of its release. Other than that, stand by your joystick and get ready for a footballing treat!

IMPORTANT: if you are a discount winner please remember to enclose your cheque to Anco.



RULES

1. Entry instructions for each game form part of the card. An entrant will be allowed to have read and accepted the rules.
2. Discounted entry only. This game card can be redeemed from the *Amiga Kick Off 3* (Amiga, Priority Mail, 30-32 Farringdon Lane, London EC1R 3AU).
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5. Proof of postage must be presented on arrival of request.
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OVERSEAS READERS Our deadline for this competition has been especially extended to take overseas readers into account. Next month, we'll be printing a full list of phone numbers and what they mean to you.



SCREEN SCENE

Welcome to Screen Scene. Within these pages, you will find THE most complete information on all the latest and best games.

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Look for Screen Star in the pages of Screen Scene. It's the only magazine that gives you the most complete information on all the latest and best games.

first

The Amiga games scene has never looked so hot. Here's what you can expect to be playing real soon now...

FLASHBACK

DELPHINE/US GOLD

When US Gold released Another World last year, critics were unimpressed in their praise. At last, here was a game that effectively contained superb graphics and animation with a control system that involved more than pressing a few buttons at relevant points during the game (in it, Delphine Drogons Lait was). Unfortunately, the game was also very short, with experienced players able to complete it in less than two hours from a standing start.

Now back with another stab at claiming the interactive crown, the times larger than Another World, Flashback features a topical (for B-Movie geot) mushing alien from outer space taking on the outland form of human beings in their attempt to infiltrate the higher echelons of a society they wish to destroy. Squared paired hero, Control B. Hawk, a rebellious scientist who stumbled across the alien's plans, is kidnapped by the evilists to be tortured and imprisoned in a high security hospital. Living his minority life as a slave, Hawk, hungry and alone, Control must search for an escape route while also piecing together his lost identity.

Well, so much for an original plot, but from what we've seen of the game play, Flashback certainly looks a winner. Doing a lot to Drogonsund's Prince Of Persia, Control can walk, run, jump, climb, roll, duck, shoot to a halt, push his way routinely forward, pick up weapons, hang from ledges and a lot more besides. The character animation was achieved using a technique called 'morphing' where real-life video footage of actors is used to obtain realistic and fluid movement in their animated computer counterparts. This technique, coupled with cinematic techniques, such as animated close-ups, zooms and numerous flashback sequences (hence the title), help give the game a movie-style presentation.

There's a lot more to do in Flashback than simply dropping down fire, beating up guards and blowing up tanks. What does must be obtained by questioning various characters and there are five large levels to explore before you can save the day and win the game. Available in the autumn, we'll have a full review as soon as possible.



IMPRESSIONS

LIONHEART

THALION

Coming soon from Thalion is a graphically stunning mixture of *Strider* and *Wipeout*. Dubbed *Lionheart*, the game is a mission platformer, with the player controlling a half-man/half-beast creature as he traverses the eight ever-scrolling levels in search of the huge griffin who awaits at the end. As he leaps from branch to branch or wall to wall (depending on the graphical theme) of each stage, *Lionheart* battles must be avoided or killed using efficient combos of sword, Luckily, though, the spells under the player's control is an incredibly versatile chop, and can be made to run, fight and shoot-out with his sword, whilst simultaneously jumping from ledge to ledge. A release-date has yet to be set, but there's no doubting that *Lionheart* is looking very interesting indeed.



MOTORHEAD

VIRGIN

Yes, it's true, motor head rocker Lemmy, in order to remain as easy on to your Affix — courtesy of those weekly gigs and gigs at Virgin. Virgin signed the license to produce a game based on *Motorhead* almost two years ago, but now the game has finally been unveiled. Call it Lemmy, the player must guide the long-haired vocalist as he fights his

way through a series of *Double Dragon*-style levels in search of his long-lost band members. These five missions have been stitched away in a series of music-related levels, so a pretty much punch and kick his way through all manner of evil forces, you'll see your way out of the, and his work before he reaches the chosen members — in addition, by stunning his truly



guitar of the incoming battles, Lemmy just also include them in a bit of good friendly music. The missions are also turned in to the Lemmy mythos. For instance, in some you must guide as much as you can possible before a time limit, away, or pay out for a game of *Crash & O'Connell* (you will until the Daily Mirror gets wind of this). Expect a review shortly.

WALKER

PSYGNOSIS

Once its predecessor two years ago, *Walker* has grown in leaps and bounds. Initially in the hands of Glisk Design's David Jones, the game is now being handled by Jon Sterling whilst David attempts to follow-up the exploits of those like *Carnegie* writers. The story tells of how the player gets sucked into an inside machine and must literally play on the *Once In*, the game is split into two sections, with the first involving blasting whatever comes your way from the safety of your walker, and the second part taking you past a griffin and into a platform-based area. Expected for a Christmas release, *Walker* will be reviewed very soon.



OUTLANDER

MINDSCAPE

Mindscape have owned the rights to produce a *Mad Max* game for several years now, but it seems the nearest they are going to come to one is the forthcoming *Outlander*. Assuming the role of a Government-paid mercenary, the player must venture into the *Outlander* in search of dangerous criminals and, in particular, a highly-motivated weapons specialist who has been kidnapped. Armed with a super-trail car and a variety of weapons, you must enter the barren deserts and take out anyone who stands in your way whilst ensuring the law for the weapons are OK, so the sounds like familiar *Mad Max* territory to us for, but there are a number of gameplay enhancements, which include the ability to shoot people through any one of the car's windows — leading to some spectacular crash sequences.

where the hapless enemy is sent sliding across your bonnet only for you to run him over! Following this, the game then attempts a *Flaming Thunder*-style scrolling section, where the hero must fight his way through a mob of unruly baddies in search of clues. *Outlander* is slated for a November release.



KICK OFF 3

The best football game on the Amiga has been entirely re-coded. Steve Keen takes a look at *Kick Off 3* and comes away with an exclusive look at the game's new features.

WORLD EXCLUSIVE



Now we find the players in enlarged mode. The screen can be panned just as the right hand side and through it's small it still retains the vital statistics of the pitch. The computer can be set to move faster or slower, very convenient.

William B. Keen: Just over four years ago a young programmer began an assault on the computer footballing world which has remained unrivaled for years. With his first ever commercial game, *Kick Off*, and its sequel, he managed to outgo handily revolutionize the way we all perceived football games on the home computer. It's only now that the ball has been swept back under his feet, in the guise of *Goalie* (Score and Strike, has been prepared to shed some light on the most eagerly anticipated sequel since *Manity Island 2*. With *Kick Off 3* only two months from completion, this programmer, Steve Keen, will be happy to confirm that this is the definitive soccer programmer and grab back the footballing crown for good.

Let's get first in the open. *Kick Off 3* is not an arbitrary sequel. From the screen alone you could be forgiven for thinking that the graphics are exactly the same. In the flesh, however, it's an entirely new ball game. For starters, the speed that way up and down the pitch look twice the size of the original, and the distance up to 100% closer instead of the 100% we are all used to. They are also a lot faster, giving the impression that they're at a new speed angle in the pitch. They have been totally redrawn and possess a pro-

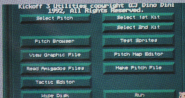
fessional amount of detail that's so clear and precise you could almost swear that they have expressions on their big faces. However, this is only one aspect of the game that's been revamped. All you'll discover later, and the innovative changes have been packed in tighter than an airplane's fuel tank in a 16-bit format. To tell the whole story let's also straighten out our World Exclusive Interview with the man himself. Over to you, Steve.

Following the enormous success of *Kick Off 2* why did you think that there was room for yet

another football sim? Well, *Kick Off 2* had been around for over a year, and we found that during that time most people who had bought it had played the game 10-20 times and knew it inside out. The game was bound to be released in conjunction with the start of the World Cup which didn't give us much time for play testing. After 12 months it began to transpire that there was a lot of room for improvement and people were beginning to suggest things that they would have liked to have been included.

So what's new? The game itself has been completely re-coded, the engine, I wanted to improve the way the computer teams played and they are now far more intelligent. Each team now has more possession, has their set of tactics and there will also be a wide choice of team strategies to suit every style of play. These tactics are the most superior any driver will have ever known, using ten times the amount of data and commands than those found in *Kick Off 2*. The managers, you can now perform, are extremely detailed and accurate costing becomes a real nature.

Expanding on that: One of the biggest changes I've implemented is the introduction of player acceleration and deceleration. When I started *Kick Off* the first team I knew was that they wanted an intelligent and realistic football sim, so I spent a lot of time trying to find the best way of moving the ball of the game. The ball is the focus point of the whole game. I knew that it had to behave in exactly the right manner for the game to be convincing and that is where I got the idea for friction. When a player runs up and kicks the ball it moves away from him faster than he is traveling. Then, due to air friction, the ball slows down allowing him



A whole range of options are available to the professional computer footballer and programmer. Steve Keen can edit the pitch, the players or even change the way players behave. It's a pity he can't edit the way some of the referees act, but.

KICK OFF 3



Shoulder-to-shoulder on the wings of this old game face, the players feature face-paint in the additional white face-masks in a full set of headgear for the players after head-to-head in goals at the stadium.

There were more than a few criticisms leveled at Kick Off 2 and its two promises: that the game will not be true if it's most realistic. One of the hardest aspects to address in a football game is the personality of the keeper and how he's going to deal with the perpetual torrent of shots. Some people scoffed at the way the goalie tended to be slightly hysterical in Kick Off 2, the meter jump from one goal post to another. Heading 20 feet across the pitch and still save the ball with his feet when it had appeared to have long gone past him. The trouble is that the only thing you can do with the keeper—apart from rubbing the ball out or goal kicking—is diving and posing. This provides a lot of a problem in the actual reaction time needed to switch controls occur faster than humanly possible. You would never be able to see the keeper and the ball on the screen at the same time early enough to be able to make the decision to control the keeper with the joystick. If he was position-controlled, the whole thing would be a monkey. Goals would be popping in left and right, making it very frustrating. So, for the most part, the computer makes the decisions.

Mathematics, man! The goals in Kick Off 2 are controlled by algorithms and although it may surprise you, he figure chess. The algorithms are a set of complicated, calculations and formulas which look at the ball and work out where it's going to go, where it's going to cross the goal line, and how high it's traveling. It then sends all that information to the meters which control the keeper in diving. On top of that, he read for within a certain radius of the ball to catch it, in order to prevent an enormous amount of goals being scored, that radius is not quite large—larger than perhaps it would be in real life. This means it won't always reach his hands, but it'll be close enough to his body to be transferred to them. That, you'll get the effect of the exaggerated, intuitive force that the keeper is surrounded by our editors.

Kick Off 2 actually took three months to produce and the sequel was finished in less than half that time, with the original providing all the ground work. Kick Off 3 has taken more than twice as long, signifying the incredible amount of new code that's been needed. Another feature I've adapted is the camera. I still feel it's vital to the game because

DOUBLE TROUBLE

The single team multi-player system Kick introduced last year left a lot of room for more than one team to play. And it's a double-edged sword in the sense that for a match, it's a little late. Of the problem was that you couldn't have both the standard screen on the screen of the same team. Kick is currently looking into the possibility of having a screen in the ball room for the standard team instead of the team you're controlling. It's not a problem as the two screens can be used for both sides to be able to see all of the time.

though many people would not have their eyes off the ball to watch it. Kick Off 2 will not only let you change the size of the screen, but it's possible to well. You can place it almost anywhere on the screen. That's not the only difference as the big data have been discarded and replaced by the men with an option for the old numbers to be displayed above their heads. An altogether more pleasing and user-friendly device.

LEADER TO A KILLING

Kick has only your team as we've named the really big surprise with last. We all know that the Kick Off series are played on vertically-based planes, but what would happen if you opened the screen to a new perspective? Well, now's your chance to find out because Kick has continued an already new perspective, including that very same scenario into the game. The system is the same and instead of all the options of the new game including the new rules, but now you can let it go. This is a massive difference, although it's not a complete change. It's the same idea, but the pitch is a little larger (especially in terms of its width) as the larger accommodation for the shape of the 70 in minutes. This new view works particularly well with the new Free Kick and Corner routines. The answer has been replaced by a different number which means the pitch of the ball and controls its direction and height in response to it. It's similar to that of Pleg's theory. Aftermath and control will be available after you've hit your desired kick. You now have almost infinite control over where you can place the ball, without Kick, which was one of the main problems before. Now you can position it right on your man and will prevent you should be able to have a great chance of scoring from any given situation.

IT'S IN THE OLD MAN

With all these new additions, it's easy to forget that the game will still have its quirk of old familiar options. There will be in the region of 100 screens to play with, individual kit designs, skill levels, and editors. Single game.

THE ACID TEST

It's a test for 200 years. I think it was the last game of its time, but it's had more experience of success than any other. It's been the most successful game in the world since it was first. It's taken two years of planning the game to get the understanding of how to make it play better. Actually, even three months into the game, Kick Off 2 was almost a case of straight off the computer and the whole team.



Side-view, which the first Kick Off 2 (left) and Kick 3 (right) would have. The camera takes here to be one of the major disappointments in Kick Off 3, but the new directional position employed in it may convince the critics.

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ALIEN³

It is one of the most eagerly-awaited films of the year. And it certainly has a tough act to follow. Steve Merrett takes a look at *Alien³* - the film and Acclaim's new game...

It's great to finish! Whereas James Cameron's *Alien* and its gun-toting action scenes went down perfectly to a computer game, it has to be said that *Alien 3* isn't the most ripper-happy of films. As with *Alien*, Ridley Scott's final film in the series, the Producers (on Sigourney Weaver's insistence) deliberately kept the prisoners on Fiorina unmasked to make for a tighter and more suspenseful film. Yet combat chases and the occasional death scene don't exactly sound the sort of thing that an action-packed game is made of. So what? Computer-based Proton Warriors were approached to produce the *Alien 3* license for the console and the Amiga; a few liberties had to be taken - well, quite a few, actually. You see, in the quest for a recent *Alien*-based game, Proton decided that a few of the film's ideas should go out of the window, rather than for them to play totally faithful and

close a game which nobody would want to play.

As far as sports recognition goes, there are no problems here. The right way smelling world of Fiorina's prison complex is populated by the movie's bald-headed residents - all of whom rather strangely seem to resemble Brian Glover (the film's Prison 'Warden') rather than the likes of Charles Dance and Paul McGann. However, Ripley himself is instantly recognisable as, armed with a pulse rifle and a series of explosive weapons, she leads it through the game's many corridors in pursuit of the *Alien* monsters. Explosive weapons? Pulse rifle? Strange. Monsters. Grumpy? Not really. When we started work on the Mayday version nine months ago, states coder Tim Pound, 'we had the script, storyboards and loads of photos for reference. It was obvious from the 'no weapons' clause, though, that the actions scenes just weren't conducive to a

decent arcade game - after all, what's the player going to do when they encounter the lone *Alien* and can't shoot it - run away?'

SOFT TALK. With stories regarding the film's problematic shooting schedule flying about, just how complete was the script Tim was working on? 'Actually, it was virtually complete,' he affirmed. 'There were two or two minor alterations - such as the Creature [the *Alien* changed form, for instance - but all the plot elements were there. Considering that I only had pictures to go on and hadn't seen the film at the time of coding, I was really surprised at how close the game screens are to the real thing. Right at the start, it was decided to avoid the script. It threw up a lot of problems in respect of making a game. The main difference between the two,' explains Tim, 'is that in the



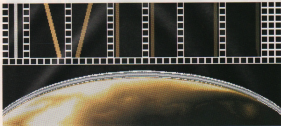
What a lovely pair of legs. Ripley looks up, observing. You'll need a great deal of firepower to handle the alien onslaught. Monitors are suspended in each hall to help you find your way.



The familiar 'alien' look is obvious in this end-of-level gutter scene. With its several deadly and fire-trap points, each alien in the prison is a formidable foe to encounter.



The alien isn't your friend (except, incidentally, and many will say only when it's in the appropriate position to be eaten). Some can even shoot back and, worse, lead to trap set.



As with the *Alien* movies, the story sequence is highly impressive. As a huge planet comes into view, the alien huge appears to loom slowly in the planet's atmosphere. One by one, the words of the film are spelt out with an atmospheric sound-effect adding to the highly impressionistic graphics.



Exp: Alien face hugger and gnat feature heavily throughout the game. Get to planets and it's the time of death. Usually you won't be able to see from this earth bank, the game environment is very detailed. Mothers that command all the prisoners and you'll have to kill them if you want your all features being actively opposed to eliminate before your early exit.

more. Play's opens most of the time responses, being pursued by the monster, while in the game alien's aimed to the team.

With standard *Alien* the game, well before *Alien* took up the project. Initially the rights were held by Microsoft before their untimely demise. As you would expect, *Alien* was one of the first to be released up by the gaming community. "You don't have a money spinner like this because gathering mass," says Probe.

So how's the game shaping up? Set on the desolate planet's surface of Fury 161 the game takes into action outside a main entrance that begins your first level home-based. Each level is made up of four individual stages, including a special section where you must locate and destroy anything between a single guardian alien and a whole horde. The level is a maze of platforms and ladders and the beasts will open up their acid onto your body to drain *Play*'s energy.

Let's see, you are a hero. The standard mission is simple: rescue the stranded prisoners and kill anything else that breathes before your time up. Before each stage starts you are told what your objectives are. It could be a 'simple' matter of finding your way out of a level before the timer expires, to rescuing as many prisoners as possible in killing surviving aliens in a given time limit. If you should miss a couple of the convicts the computer sends back to their location after the completion of the level and you can watch them explode before your eyes! But with so much hardware at your disposal it shouldn't happen often.

The four choice weapons are the pulse rifle, flame thrower, grenades and grenade launcher. Obviously, some are more powerful than others, but in some situations it's best to choose a weapon for its versatility rather than its damage rating. The rifle can be shot at angles, while the flame-thrower allows you to stand and shoot when firing. Grenades can be dropped into ducts to explode around before hitting their target, and the launcher, the most devastating weapon, will take out huge numbers of beasts, but takes precious seconds to

load and load.

The locations of the levels are excellent with all the 16 colour Amiga palette used to great effect. Some of the environments, such as the slaughter house, contain the Aliens and are richly detailed and very atmospheric. Dead chickens scatter the floors and deer hang from hooks added with piping chains leading the way they're expected from the inside out. The sound effects and graphics, ladders and conveyor belts make up the platforms and all look well at home in the themed planets. As other happen when British programmers produce games of *Black Dug* films, instead of movie releases, they

don't get to see the look and feel into their special. However, the team were satisfied by the closeness in detail and the appearance that the software teams to the overall look of its related cousin.

And it's all. There are two types of *Alien* in combat during the game. The small face-hugger and the huge, fully-developed alien. This monster has been genetically spliced with an eye and therefore runs around on all fours. The smaller cat-like versions hide in shadows, crawl across ceilings and walls and generally wait around just as they do in the films. One of the most interesting scenarios seen *Play* is doing across scenes of pods that begin to hatch before your eyes. Suddenly they burst open, flying the face-hugger through the air and onto her face. Only by waggling the joystick furiously from left to right will you break their grip. All the time the monsters are in contact with the host they drain her energy so the faster you waggle the longer she'll live.

With preservation (guns and the prisoners) is the main of the game and there's plenty of useful kit to help you in your mission. An on-screen monitor warns of approaching the items including the various aliens and prisoners. This feature is invaluable when exploring some of the bigger levels as you only have a few minutes to complete a search-and-find mission. Nearly all of the levels contain the classic problem: ducts seen in the original film. A lot of the game's action is based around these fan-



The game's attention to detail of its surrounding features, with the rugged character rippling at pulling off a number of our protagonists that we would see in an alien after you...

well. "They were one of the hardest parts of the game to implement," Tim continues. "When Ripley submerges into the ducts you can't see anything outside as it's pitch black and when that's outside you can't see into the ducts. Finding a way of having this natural transition from a fairly well lit scene to pitch darkness, without the player knowing what's coming next, was very hard to pull off."

It's in one of the massive tunnel sections on the fourth level that the game takes on more of a Gigeresque feel as you find yourself emerging into what looks like the alien's main-breeding ground. The whole place is smothered in gurgles and screams. Slimy drops from the walls and ceilings whilst face-huggers scuttles around everywhere. It's here that you will find the main-use for your grenades as randomly located barrels of Catabolism, an extremely volatile and flammable chemical. If you shoot them you'll see them stay lit, but by keeping your distance and tossing a new grenade if them you should be able to start a chain mass fire totally bring entire tunnels of aliens at a time. Your headsets can't understand but extra packs of bullets and first aid can be picked up on route.

WALKING TO THE LEFT Alien³ looks set to be the biggest and best arcade/console game ever released on the Amiga and if all goes to plan it could even knock Team 17's Alien Breed from the number one home slot. The sound of alien fire has suckers, sampled explosions and other sounds are enough to bring anyone back for more. And until the game is officially released none of us will be able to sleep at night.

ALIEN³

THE FILM

It is one of the most eagerly-awaited films of the year. And it certainly has a tough act to follow. Steve Merrett takes a look at Alien³ - the film and Acclaim's new game...

WELCOME TO THE FUTURE First of all, it took no-one could hear you, guess. The second time round, it was war. Now it's taking in the most terrifying place of all. Yes, the film is back, and despite what the press say about Gigeresque Weaver, the phrase describes the creature slithering outside Ripley in the third (and probably final) instalment of the Alien films.

In 1979, on a spaceship planet known only as LV42, a party of space truckers were seen entering an organic-looking spaceship in search of the transmitter responsible for a Mayday call. It was to lead to a bloody confrontation against a creature which was to revolutionise the popular image of the 'Man in Rubber Suit' monster and result in just one survivor. This outcome.

Retired Officer Ellen Ripley, was to return to her home planet of Earth some fifty-seven years later after an extended imprisonment to find that LV42 had been rechristened Newtropolis, and that contact with the colony had been lost. Realising that the only way to face her fate of the end-blooded creature was to take it on and win it off for good, Ripley joined a party of heavily armed Marines on a last-to-kill mission. Once again, though, casualties were high and as Ashburn was reported in a nuclear explosion, Ripley, Corporal Hicks, and a nine-year-old girl called Newt were the only people to return to headquarters - but not, unfortunately, to Earth...

WELCOME ABOARD Alien picks up several days after the events of Alien, with Ripley, Newt, and Hicks left at Weyland the Android, and Hicks still in hospital on the journey home. Unfortunately, though, they are not alone, and a sinister face-hugger's acidulated stinks a lie which prompts the ship to dispose of the three survivors - and unsaved guests - in the nearest planet. Due to enter Michael Hicks' Biker's reluctance to appear in the sequel and Camp Newt's aging in the eight years

between films, the Productions were left with a problem of ending out two main characters early on in the film. After all Ripley spent most of the second film looking after Newt, and to have the poor child killed at the start of the third was unsatisfactory but, sadly, necessary - but it also solved the problem of how to replace Hicks.

Thus, alone and barely alive, Ripley is found and escorted to a dock chasing several miles from the crash site - leaving the bodies of Newt and Hicks in their oxygen-filled coffins. It is apparent that the whole planet Ripley has landed on is called Phasma (H1 (MMA Pury) and it is created by the all-powerful Company (who financed both Ripley's original ship and sent the crew to locate the Mayday RNA) return to

evacuate the Alien monster on a mission to a prison where the workers also cut a pitiful existence whilst kept out of team's way. Populated by a world assortment of species, insects and semi-combustible, the rest of Ripley is predominantly British, with Charles Daniels, from Newt Taken Out General, and



Paul McGann amongst the only survivors.

As the film progresses, the burning face-hugger which spawned Ripley's premature landing impregnates one of the prison's dogs, which promptly heads over to give birth to one of the end-blooded Aliens. Reminding what's left of Newt to tell her, Ripley is slanted to find out that the prison has been no escape whatsoever, and the Alien starts to pick off the survivors, one by one, only she and the machine for good.

THE END OF THE LINE Work on Alien³ was troubled to say the very least. Whilst every critic is ready to draw down a sequel as 'Team Three', even it, bought the film, with the third in the Alien series, such speculation was fuelled by the constant rising and falling of staff. No less than four plot lines were formulated and ignored (including a genetic-splicing tale from

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Screen shots from various formats.



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Frank (Batman), The Dark Knight Returns (Miller), and a further three Directors were similarly ousted before the producers settled on David Fisher. However, even this couldn't stop the plotting

Hollywood shysters, as Fisher's previous directorial work had been for music videos for the likes of Paula Abdul and George Michael, leading people to believe the wasn't ready for what was a very strong Ace in their hand.

Unlabeled, Fisher started working from a script by Vincent Ward set in a distant prison planet and setting the cast against just one creature rather than James Cameron's army in the second film. Fisher was a massive fan of both films, and admitted the fact that they were both so different – a fact he wanted to carry through into his. Thus, as the movie reached storyboard stage, with *Scorpius* (Rever's return as Posing Bone confirmed), and the majority of the cast (known), he decided that there would be no high-tech action and more emphasis on suspense. In addition, when working with the Allen artists team of Alan Gills and John Woodruff, Jim (both of whom worked with Alan Woodruff on *Alenia*) it was



decided to make the creature more similar to H.R. Giger's original ideas. For example, the levitate head of the warlike *Alenia* skins have since been replaced with a more transparent and smooth

skinner which acts as a powerful reflective surface during the predominantly dark action scenes which abound in the movie.

THE CREATURE

Initially, both Gills and Woodruff had envisaged using the *Alenia* another step forward by adding Chameleonic style elements to the creature. This way, they had hoped for a creature which looked like wood because that was the environment it grew up in, while they had also planned for metallic and even glass-based structures. However, in the end it was decided that this would be taking the idea too far from the original track and may appear like hard work, so any additions to the costume were minimal. One thing they did pull off, though, was increasing the number of stages in the *Alenia*'s development. In the first film, it was seen as the bare flapper, before emerging as a chest-buster and eventually shedding its skin to become the fully-grown creature. In the third film, though, there are more transitions and these make for a more varied and unpredictable creature.

As with the other two films, *Alenia III* was filmed at the Pinewood studios here in the UK, and the film covered seven massive soundstages – with the famed '600' set (named after the number of James Bond films shot there) acting as the shoot site for the film's finale. In addition, to get the intense burning planet surface off to a true, a grand-tilt backdrop, spanning several acres, was used with the typically dull English weather adding to the overcast look of

the atmosphere. However, because of the many delays with the script and the story running massively over budget on several occasions, the film's release date was bumped back from Christmas last year, to an August release this year. In addition, this caused several of the actors to get a little 'ragged' as the hours got longer and the stress became worse. Similarly, when it did all come together, the previous audience were far from happy with Fisher's original ending which, without giving the cast away, was rather similar to that of *Terminator II*. Thus, the cast once again had to be recast, but Warner was adamant that she wasn't going to show her head again. Luckily, she was won over and, after some nine months of filming, *Alenia III* was finally in the can.

On the film's release in the US, it was officially panned by the film reviewers, but nevertheless went on to make it a whopping \$65,000,000 in its first week – before falling off almost immediately after. It opens in Britain in August, so you should have been able to judge the results of Fisher's work for yourselves by now...

TAKING THE SHORTS

Many feel the director of the first *Alenia* film, directed Brian Kopp, one of *Alenia*'s prime aims, in his first ever short for World Book.



Although the *Alenia* version of *Alenia* was the last to be created, it's expected that the creature team will be in the shape by then. Already much of the game is in place, thanks to a specially made action which makes this painting of objects and scenes in the space of a few minutes. It's a very complete of what's been largely done, the director to find that has been involved in the design process.

THE DARK KNIGHT

Tim Burton, the *Alenia* writer, has worked for the *Alenia* team and on such games as *PlayStation*, *Quake*, *Quake II*, *Quake III*, and *Quake IV* amongst others. All recent efforts were done through Fisher and the studio by Warner.

WORKING

The *Alenia* creature is very well documented and there are books that actually operate in describing every aspect of the being's growth, psychological and physical nature. The reason for this is that the creature is actually alive and made to play with the aid of a computerized skeleton that is the back of its neck.

Leaving the high-seas of the *Monkey Island* series behind them, Lucasfilm go in for a bit of deep sea diving in *Indiana Jones' quest to find the lost city of Atlantis*. Dan Slingsby jumps in at the deep end.

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Beast bridges were installed, water, more a bridge over trouble, and a prime example of what's in Beast 3's previous incarnation.

BEAST 3

OUT OF THE SHADOW

The beast is no longer a beast, thanks to a little magic from those boys at Psychosis. Tony Dillon picks up where the squillion-selling sequel left off...

DANCING IN SHADOWS

Shadow Of The Beast is still generally regarded as one of the most attractive games ever to appear on the Amiga. OK, so the critical game play itself wasn't exactly the finest ever, but the large, smoothly animated sprites coupled with the kind of panache resulting from making polygons look so that made it an instant classic. After winning dozens of awards, *Psychosis* duly followed it with another stunning adventure—albeit with a little more cerebral challenge. Again, the graphics were of a very high standard, but I couldn't help thinking that the puzzles involved were difficult to the point of disheartening. Thus, it was with some trepidation that I encountered the sequel to the sequel. *Psychosis* are aimed to tell *Beast* 3!

Fears that it would be more of the same vanished in the first few minutes of playing the game. *Beast* 3 stands head and shoulders above the

other two, both in design and game play and there's still a lot of room left for some mouth-watering graphics. The plot carries on from before. The Beast Lord has killed Celia and, as promised, has been returned to human form. But it doesn't end there, though. Now there is a fresh challenge in the form of the demon, Maloth. The Beast Lord has dreamt that the demon has kidnapped his baby girl and, as is always the case, such dreams turn out to be prophetic. With his regained form, the six-foot must face the demon once again.

The game is played over four levels with four completely different sets of backdrops and noises (trees, temples, caves and castles). Taking it step even further away from the original, *Beast* 3 is based on a much more puzzle-oriented system where visual riddles have to be solved before you can move on, and this is really the backbone of the game.



With the sights of the world on your shoulders, you have to figure out how to make the beast bear even to enough to let you cross a thousand miles in the air.

MOVING ON

Progress could never be described as a company blind to their own abilities. When work finally began on about 18 a year ago, the powers that be sat down and went through both the previous products, putting out the felt and pieces of each. With both of those they tried to build a winning formula for that lot of folk. And well, about it had, because the same people would enjoy playing this new incarnation. The resulting ideas were then put down on paper, for development time.

References, to bring it to life...

PUZZLES

The puzzles in *Beast II* are among the most original ever devised. Filled with some obscure, others are so delightfully logical that you'll sit about thinking 'no, that couldn't possibly work in a computer game'. They are a far cry from standard platform puzzles which merely involve placing an object in a certain location, or flipping switches to open doors. These games require pure thought to get over. Here's a perfect example: during the first level, you come across a platform on a swinging arm. On either side of the platform are others, but the first level only reaches the one on the right. Standing on a nearby platform, you notice it swings down and to the left, but nowhere near far enough for you to reach the far level. Walking back a little you discover a large rock. Pushing it over to the rock the platform causes it to stop from swinging - but still not far enough. However, jump on the platform itself when the rock is on it, and it falls far enough to let you carry on.

This is one of the more straightforward puzzles, and I don't want to go into too much detail about the others for fear of giving too much away. Suffice to say, though, that later on you have some fun with tables with breakable legs which can be used as benches and ramps, along with melting metal balls and an aquarium with a crane attached.

In fact, the aquarium puzzle is defining any puzzle in the game. Initially you are presented with one of those sliding puzzle games that we all used to find in our stockings at Christmas. In this case, it's a diagram showing a fishy food chain, and which of the many aquatic species is the only one that can't harm you. Once you have pinned it together, note the instructions that then progress onto the next screen. This is made up of three levels and a crane. Stepping into the control booth, you have to lift fish from one tank to the other, where they will kill any fish they come into contact with, until you only



Of course there's some basic and straightforward, but considerably less than in the earlier *Beast* game. Remember, you are now a bear with a conscience.



One of the earlier puzzles. It's not as involving as some of the later ones and it shouldn't be too difficult to figure out, but it's a puzzle you'll never forget.



The hardest puzzle. Each tank contains different kinds of poisonous fish, and you have to move them around with the crane until only one remains - the one that won't harm you.



A lot of more and different games than ever before. The game looks and feels as different as the previous two titles.



These control balls can be very handy if you get stuck in the right place. First, you're not in a bad position to get stuck there.



Now you're in a bad position to get stuck. Now you're in a bad position to get stuck.



The best game could be complete without an enormous last-guy confrontation along the way, and this guy knows how to bring a mean...

last-one left, which with any luck will be the last one. Get the wrong one, and you'll be dead as soon as you step into the water.

You should now have some idea of what sort of puzzle this game contains. The best way to describe them is that they are much more along the lines of text-adventure problems than arcade puzzles, and that is basically the whole point of the game. There are roughly five different puzzles to each huge level (one to each side), and each puzzle can be spread over half a dozen screens, so there's a fair bit of looking around required before you can even start to solve the visual riddles.

HAMMER AND SICKLE

There are essentially two weapons in the game, each with their own specific uses. You begin armed only with an infinite supply of shrunken, but if you look around carefully enough you'll probably find the hammers located somewhere nearby. The basic rule of thumb is that the hammers are used to destroying things and the hammers are used for pushing things. At the start of the temple level, you come across a ball swinging from a chain. You need to get the ball swinging and then knock it down a nearby hole. If you fire the saw at it, it'll simply fall off its chain. If, however, you fire the hammers at it, it'll begin to swing, setting it again means it is swinging more wildly, and its swinging is high so you head it in. (Shooting it now will (hopefully) send it flying in the right direction. By using the weapons in the right ways, you'll be surprised at what you can do.

That isn't to say that the game isn't crawling with action. Although somewhat into the blasting frenzy that was the second title, *Brain* is still too far from a horde of hostile enemies—although not as many “cannon fodder” types as the first. The game is played over an eight-way scrolling city field, and contains all the best aspects from the first and second games—i.e. generous backdrops and incredible, multi-level parallel scrolling.

Speaking of the graphics, you'll be pleased to know that they are still of the same high quality seen by the previous runarounds. Everything has a distinct Rodney Matthews feel to it, from the intricate backdrops to the giant skulls and the breathing stone gargoyles. By using dimmer

colours and some clever shading, the game looks dark and oppressive—a far cry from the lean age of console-style platform games hitting the shelves at the time. The colour scheme also accords to the games which fit in with the game's look perfectly. If there is one thing that can spoil the look of a game, it's a picture that looks out of place and out of mind.

BEST BEAST

Brain is certainly very playable. As far as I can see, thanks to some superb responsiveness on the part of the main sprite, you are more likely to die by hitting the escape key rather than through loss of energy flow to the very few puzzles are laid out. The risk to solving most of them is to work out the chain of events and then



start the ball rolling from the right point. (Doing the wrong action before it's time causes the whole puzzle to go wrong, but for some strange reason you can't help trying again. However, if you can't stand games which only let fail and over, I'd recommend you look elsewhere.)

Alas this one fell off a good game, really the best of the first. As I mentioned earlier, I was a bit sceptical before I reviewed the game, but any doubts I had about the game's quality were quickly dispelled once I posed up the puzzle and tried it. It looks as good as the first episode and plays better than either of the previous two. Well thought out, extremely playable and highly addictive. I don't know what else I need to say to make you buy it!

Super guide

release date	September 1993
genre	Adventure/puzzle
series	In House
number of titles	1
number of games that did something	1
average	deep meditation

PSYCHOSIS CURE

The best as far. Flawless design and flawless playability...

GRAPHICS	99%
SOUND	99%
LASTABILITY	99%
PLAYABILITY	99%

OVERALL 98%



If you're the sort of person who worries about huge ratings falling out of view, then this isn't the game for you. That sort has never existed, let's just be happy with the two weapons, in this case a single-breasted coat!

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Abstract

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FIGURE 6 ■ **REVENUE** ■ **PERFORMANCE** ■ **PROFITABILITY**

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Wie wird das Gitter-System
über das Netz mit dem
Netzwerk verbunden?
Wie wird das Gitter-System
über das Netz mit dem
Netzwerk verbunden?

Titus return with yet another racing game.
Tony Dillon is in the driving seat...



CRAZY CARS III

FORGET THE PAST

Make no bones about it, the first two Crazy Cars games were dire. Although they both featured highly attractive sprites, the movement both of the road and the objects on it was so jerky that little or no impression of movement was created – and chaotic sprite distortion rendered the games unplayable. Naturally, I can't say I was looking forward to the third in the series. How wrong I was, though, as CCM3 is really quite good.

Cast us an illegal race, you are part of a league which spans the width of the USA (starting in Cronson 4, you must work your way into the pole position through a combination of driving, gambling and expansion).

MONEY

The most vital thing to have in Crazy Cars III is money – and lots of it. Each race earns money to spend, and the more money it costs, the more you stand to win. But that isn't the only way you can earn big bucks. In most of the races, other drivers from your league table will be competing against the locals, and before each race you have the chance to gamble with these drivers, all of whom are betting money on themselves to win. They will rarely bet more than 1500 dollars at a time but, even so, that's a lot of extra pocket money.

Cash isn't just used to enter



all the vehicles currently available from the last performance. Manual gives you more power functionality, but not without a cost (steering wheel control).

SHAPPING IT OUT

The 3D map displays the location of all the races before you. The more marked an image stands out the better (as you don't have the map), but any others are really for your attention. See examples in this site. Though, it is the size of the map which represents the ultimate challenge, rather than a race, and the only way to get into this is to earn enough cash to buy a race. Once you have completed the challenge – a hard race against some tough opponents in a course choice of your own – you are eligible to move up to the next, harder challenge.

times, though. For each season, there are a host of improvements you can buy for your vehicle. These range from a modest police siren to full blown up and extra gears – the latter pair increasing your top speed, for instance. You can go without buying extras, but they do give you a much better chance in the harder races.

DRIVING FORCE

Obviously, the racing section is the most important part of the game, and this happy to say it works well. Race track speed for the most standard two-lane winding road, although the width of the strips is far greater than in previous titles. Contrary to Japan, for example, few 3D strips start hidden to foreground. CCM3 has roughly eight. This, coupled with the vast number and size of roadside objects helps the game run at a dizzying pace. Objects glide past smoothly, as do the other cars, and everything is fairly consistent. It lacks the sophistication of Lotus – especially as the corners are represented by the road suddenly bending to one side – but it still works well.

What doesn't work so well is the handling. This can be said to swing about a half of a lot, even with the smallest joystick movements. This means that, when you overtake at high speeds, nine times out of ten you will end up hitting a roadside object. In addition, all corners look the same, yet have varying degrees of force making it impossible to compensate for towards the end of the line, making accuracy a frustrating process. With practice, it is possible to get used to these quirks, but they shouldn't really be there in the first place. It is wasn't for the playability problems, Crazy Cars III would be an excellent racer – although it does make the tournaments look really tough. As it stands it's quite good, but rather too frustrating to be truly addictive.

Super guide

when does game run:	August 1990
where can you find it:	through import to these countries
number of disks:	3
number of players:	1
and still available:	Yes
average:	Any machine

TITUS CCM3

4 The best of the series, but there are better racers. ... 9

GRAPHICS	87%
SOUND	70%
PLAYABILITY	68%
VALUE	62%

OVERALL 71%

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BEATING 'EM UP

There was a time in the heyday of the Commodore 64 when martial art games were all the rage. Classics of the genre included *Way Of The Exploding Fist* and international *Karate* to the more strategic games such as *System 7's* acclaimed *Last Ninja* series. Since then, things for the dark vigilantes has been a bit quiet – until now that is.

An Emperor's mighty sword has

been stolen by a rival arch-king. With it, and his honor and, not surprisingly, he would rather have it returned to its rightful owner rather than lose face in front of his own people. As a result, he has hired you, the last ninja in the land, to get into the enemy temple and do whatever you deem necessary to retrieve it. However, unlike the many computer games before you, keep reading about, there is no way you are going to solve.

Help comes in the form of the blessed statue of Buddha. There are four of these bounties to collect – two of which can be found in the first two levels – and they must be placed in strategic places within the temple to open doors, taking you into previously unseen areas and generally helping your progress.

PICK'N'MIX

Dill's *Secret Of Musou* (SCA) is a cross between *Mad, Last Ninja* and *Pyrognaise*. Barbarian, it has all the classic elements of the first, the puzzle and strategic elements of the second, and even control of the *Pyrognaise* game, but only do you get to fight your way through the game. There are also puzzles to solve, maps to make, and one or two objects to use along the way.

The first thing you'll notice upon loading are the controls. Picking up the joystick, a wide variety of directional moves coupled with presses of the keyboard control the firing, leaping, jumping and fighting all over the show. So what are all those arrows in the bottom panel for? If you look back to the days of *Pyrognaise* then such as the aforementioned *Barbarian*, you'll remember that they were mouse-controlled mode games, with icons replacing joystick

moves. SCA lets you play with other simultaneously, with the left button selecting a non-aggressive move and right button for more violent gestures. This might seem like an odd thing to do, but it does make for a far more playable game in places where very intricate movement is required, the jumping over a spike, when accidentally selecting the wrong direction could be disastrous.

MAPPING IT OUT

Leaving areas, the first screen, you come across a door left into the back step. Pushing up at this point makes your character walk through the door (not the screen – which makes a change from all the 'walk left to right' games we're constantly bothered with). Each of the levels is made up of roughly twenty screens, and leaving them out this way adds a mapping element to the game. Now, not only do you have to do all the right moves to get through the set and the end of the level, you're also got to find the thing.

A couple of screens on, and you find your first fight. This is where the game begins to stand out from the crowd. (Slightly) a joystick parameter like most in the genre. Instead, careful thinking is necessary to lay the most blow on your opponent while

Countdown
down with
the only
computer
action
game
that
doesn't
feature
jumping
over



SWORD OF

They have always been popular but, after a bit of a respite, could Ninjas be back in fashion? Tony Dillon dusts up on his moves and finds out whether there is still life in the old genre...



Sometimes action isn't getting through the door, and the only way past them is with a well timed leap or two – where timing is critical.



It's not always as fitting as status that it is the big, blood-soaked, bloody, though, as the things a warrior can buy in this bazaar are vast.



Even the way a building is built is a clue to its story. The things a warrior can buy in this bazaar are vast.



Even the way a building is built is a clue to its story. The things a warrior can buy in this bazaar are vast.

WEAPONS BAZAAR: The bazaar is a place where you can buy and sell weapons, armor, and other items. It's a place where you can find everything you need to survive in the game.

avoiding fire. Of course, different types of enemy require different strategies. Quick fire, close-up punching works fine on an enemy with a range no longer than your own (in an unarmed fighter), but as most characters carry some sort of weapon (swords, bows, etc.), you have to find the right moment to step in, attack and then jump out again.

As you can see, the system is simple. You may think this won't give you a lot of room to maneuver, and you would be right. However, if you use the way of the warrior who keeps constantly moving off screen while the battle is going your way, then you can't lose - it's a win-win. Tapping the 'return' key at any point takes the auto meaning that if you're in battle, you can leave the screen. Tapping it again unlocks them.

GIVE AND TAKE

Along the top of the screen will be empty boxes. These gradually fill with the items you collect throughout the game - weapons, the Buddhist statues, and various other items. These are used to get past some enemy characters (simply saving your energy). The way of the warrior, though, is if a character has something to say to you, then it's an open bet that there is probably an object somewhere that you can give them to get past (or save). For example, early on you pick up a fan. Using the fan gives you the message 'Thank you, fan much cooler.' A little later on a particularly hard-looking Samurai says 'It's a hot



day - because of the sun.' Missing in mind that the Samurai is probably missing underneath all that armor, you give him the fan, which he accepts gratefully. This side of the game adds real atmosphere to an already excellent adventure, and is probably why I'm writing this review after playing the game for five solid hours. Visually, the game is a knockout. The attention to detail is astounding, even the way the rain's pattern-like waves when he walks and the way his shadow changes shape depending on his movement. The backgrounds are gorgeous from start to finish, going from vibrant paper walls with hints of nature scattered on them, to huge (ancient) forest landscapes complete with trees, waterfalls, and tiny birds flying around in the background.

Sounds are simple but atmospheric. The music is the only concession to music in the game, but there are constant background sounds such as leaves rustling, or birds singing (that guard a perfect sound contrast to the violent, jarring sounds created in battle). If the 'flow' here used a car door slamming to give that punchy sense of impact, then the game uses samples from the Gulf War. It's a bit of a long time since we last heard of a long time since we last heard of the war in the game, and it takes something as good as Blood of Honour to make you realize that. It's an excellent combat life, but there is so much more than that in there that you would be a complete fool to miss it.

PHONOUR



Left: Another example of the way the game has built the things a warrior can buy in this bazaar are vast.

BUYER'S GUIDE

release date	August 1993
platform	Amiga
genre	Adventure
publisher	Blizzard
developer	Blizzard, Digital
number of disks	1
number of players	1
recommended resolution	640x480
memory	1MB

EMI CDS 99

6 Battles, bartering and blood - cracking stuff...

GRAPHICS	89%
SOUND	83%
LASTABILITY	88%
PLAYABILITY	87%

OVERALL 86%



Once you have trained your athletes to optimum performance, actually taking part in the event means a little practice - and it's certainly slightly repetitive...

ESPANA

The Games '92

With his cycling shorts stuffed with fruit, Tony Dillon reckons he can do better than the British Olympic team...

PLAYER MANAGER

Olympic fever has returned, and with it comes the usual rash of multi-sport sports sims. Ocean have also duly jumped on the bandwagon, and have released something almost completely unlike anything seen before. Sure, it has its similarities to others within the genre but, in general, this definitely isn't a game for boys' night.

You take the role of a country's player manager, looking after the entire squad both training-wise and competing in the games themselves. And there are more than enough of them to keep you busy - over thirty in all, ranging from the standard 100m sprint and relay penning events to the more unconventional Judo and Olympic Wrestling. Details enough, aside from the archery and gymnastics haven't been included. But I think there are enough sports here to keep most people happy.

The focal point of the game is your office. From here, you can select ten athletes, train them up, check their medical details, scan the events on your agenda, advance the

date, and, of course, take each athlete out to their chosen events. So far so good - but for one thing. You may have noticed that I said 'you' in the singular sense. I'm afraid to say that this game is solo-only. Although you and your master can sit at control different athletes under the same national banner, you can't actually compete against a human opponent at any time. That in itself takes most of the fun out of the game.

Virtually every event is played by moving the joystick in time with the on-screen moves - for example when kicking, you twist the joystick in time with the runner's foot. This isn't always a regular speed, however. Races in particular are paced with various times. You don't have to control the players, though, if you fancy a managerial stint in the game, you can train the runners and jump them on automatics, and watch their progress from afar. Needless to say, this is very dull.

CONFUSING

The thing that really works me up about *Espana* is the layout.

Everything is presented within a hierarchy of menu systems, and part of the challenge of the game is remembering to go to certain screens at certain points. For example, on one day you have the practice, the district and the 100m freestyle. The order of play goes: go to office screen, select practice athlete, go to office screen, team office, go to action screen, to event, and so on.

This makes for a very confusing system, made frustrating because the machine accesses the disk drive every time you go to another screen. The other real problem is that at no point are you told what you are competing against, which completely takes the game's competitive aspect. But players progress just along the same old set of tracks used in every game, while you spend your time wondering what you are supposed to be doing and why the leading times are so long. Given the inclusion of a full reference library on the Olympics does little to ease the standard of this appalling system, it's...



Your glorious office, complete with floppy disk, personal training notes in French, looking like the 1980s, the Director's trophy and the calendar bar - but not the secretary.



Tony Dillon, one of your star athletes. Not the most of recent days (but an expert in his field).



The swimming events are especially well animated.



Here you can choose to practice or compete from event, or even have the athlete under computer control.



The right menu with these top left windows: athlete data, statistics, office memo, reference screen.

BUYER'S GUIDE

release date	July 1992
genre	Sports sim
series	Creative Materials
platforms	Amiga, Amstrad
number of disks	Three
number of players	One
best deal available	No
summary	Any Machine

SCORE 62/100

Five events and an over-the-top menu system...

GRAPHICS	62%
SOUND	73%
LASTABILITY	60%
PLAYABILITY	58%

OVERALL 59%

OLYMPIC TRIVA On the interior disk included with the game you'll find lots and lots of information. The first portion is the scores and medal events of all the competitors in this year's Games, along with the results on all the events: sports, basketball, etc. Accompanying this is a full history of the Games complete with factual and interesting details about each. For example did you know that in the 1972 Games, female people were called as a result of female athletes? You would if you bought this...

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EX06





The game is about as different as you can be from Jeopardy!-based board games. The board occupies more than half the room, and you are usually asked the other half.



Questions are accompanied by a touch of computer graphics and a somewhat dramatic picture. Unfortunately, though, that's it to enter with Jeopardy! the best Trivial Pursuit game.

TRIVIAL

So far, the CD medium hasn't really been exploited to the full. However, Domark's first foray into this exciting medium is a conversion of an old fave with a difference. Paul Rand gets trivial...

BORED GAME?

Since its creation in the mid-1980s, Trivial Pursuit has become the post-wedding pastime of Thirtysomething the world over. Why? Probably because everyone likes to be a smart ass, and what better way to prove it than by correctly answering hordes of trivia questions? Trivial is exactly what you must do in Trivial Pursuit. Playable on a round board (actually, it's square, but the actual playing area tend to circular) which is further split into numerous question boxes, each player must attempt to fill a circular playing piece with different colored segments and reach the middle of the board before the others. This is achieved by answering one of the six social segment squares and correctly answering a question pertaining to the appropriate category—you must have played it at some time...

All well and good, but until annoying when you sit in through the front door with the bags and girls, all of whom are clamoring at the table for another round of "Triv", only to find that half the segments are missing and the day has chewed-up at the cards? Domark remedied this a few years back with home computer versions of Trivial Pursuit—and now they're on disc until almost all amounts of CD-ROMs with a CD-based conversion of the game.

ENTER RUSSELL

We tend to ask everyone to hold the cards here: Trivial Pursuit—the CD-ROM



A number of character characters appear in and around, such as Russell and the others.



Some questions even include actual effects for added realism.



"Russell" are also Trivial Pursuit in all about, and whenever you answer a question question correctly the normally friendly Russell appears appropriately.

CAST OF THOUSANDS

It doesn't seem like you can't find out about 100-based characters. It's the amount of people involved in their production, Trivial Pursuit has a cast list as long as your arm, from programming and production to players and sound producers and voice-over artists. Connections and improvisation take Russell (who you will probably have found supplying the voice of People on Earth) through time in time from the beginning of the world to the present, while Gary the actor and star of time to a few years (really big time), Patrick Stewart—another the voice of other characters. What you, quite well, the character was thinking of when he did the voice of Russell are don't know—so it got a Galaxy about in Trivial Pursuit.



In the original computer game, characters are all right to be described...



Between the two CDs, there are over 1000 questions waiting for you every week. In addition, the edited speech and pictures really add to the party atmosphere when there are a number of players.

PRESENTATION

Thanks to the power of CDV, the player isn't just reading a text file screen and a mouth of paper model. On loading, the CD greets the player with a full-screen splash on the screen, taking the player through an animated cartoon representation of all six different categories, then history - to which your character just escapes being kidnapped by a Roman soldier - to Entertainment - to which you're grabbed by Hong Kong and carried up to the top of the Empire State Building. The selection of the graphics isn't too hot, but the overall effect, accompanied with a charming 80-soundtrack, is the best.



According to Trivial, scores take 100,000,000 on the scale.

PURSUIT

Version 1.01 is over built in Mission of Comedians, called Pursuit. It's an old-looking box with a relatively plummy title - yes, he takes - who will be your guide right to the end of the game. Russell's stacked together a lot of his friends, too, to read the questions. And what a lot of them! The player must have Albert Einstein (Science), Max West (Entertainment), Adam (Sport), Napoleon Bonaparte (History), William Shakespeare (Art and Literature), and Christopher Columbus (Geography) are all on hand with questions of the ready and glib in abundance.

All the customary rules are there, with the player rolling the die and moving the amount of regions shown. In the busy-world of landing on a normal question square, a power will be given, which must be answered within a time limit. Alternatively, landing on a square with a double and you are released a free throw. And, if you land on a segment square and correctly answer the trivia question, the appropriate wedge becomes yours. Collect all six and make it to the center circle, answer a random question and you win the game!

It is in the question answering where Trivial Pursuit differs radically to other computer board games. There's no need to choose from a list of possible answers - simply choose what you believe to be the correct answer and then choose the PowerStone. The computer will then tell you the answer and let you if that was the one you chose, or which point you scored after. Yes or no depending upon whether it or not you were right. This unique method allows for an ability never before possible in the game - cheating. There's no need

to worry about running out of questions, either: Trivial Pursuit is supplied on two CDs, each containing 1000 questions, with extra question discs already in the package.

MEMORY MAN

With 100,000 of random memory on each CD, the programmers of Trivial Pursuit have been able to tap into the graphics and sound department. The first thing you notice is the animation of your fuel Pursuit and the question-asking cohorts. Although quite basic, each character comes to life as each thanks to the many frames of movement. What is not really very clever is the way in which their mouths move in sync with the spoken word - and there is a lot of speech in this game. How much? If you're asking questions, how many? And how many how much more. Russell is never afraid to rattle on about something, whether it's informing the player to roll the die, or making some starting comments on the amount scored after the roll. And, introducing each of the question-masters he'll spend a good half minute or so indulging in mindless conversation with them before getting back to the proceedings. Each power-off move has a picture attached to it, and some even have a piece of music or snippet of running commentary, too.

WHAT A LOOKER

Trivial Pursuit is a title that is obviously not an enormous amount of time spent on it - and it shows. If Comedians are on the lookout for a five-hour piece of fun, this is not the one. The game isn't without its faults, though. The most annoying is while the screen is showing one ques-

tion, the CD player occasionally slips off and chooses an incorrect piece of speech to go with it - imagine my surprise when, on leaving my CDV, I saw how many times I'd seen it before. I looked at the question which was appearing on the colour of Yorks model. Other title games include some rather nasty flicker on the displayed graphics screens, not to mention the disconcerting and, eventually, annoying click which bleeds out whenever a new piece of speech is loaded. And there's a really unpleasant animation - while points have snuffed the front end but of humorous graphics and sound, some the end of the game there's not even a hint of congratulations to the winner, just clearly silence and a faster screen.

CD HUMOUR

Having said this, Trivial Pursuit is so packed with humour, especially in the form of the optical illusion and its constant stream of wits, it slightly offsets one from enjoying it if you don't very good at the game - he'll let you know in no uncertain terms, that of the problems, which would be extremely all putting on other titles, take into consideration. Obviously, with the method of answer selection employed, this is a game that is all but impossible to play on your own. But then again it is the best thing. Trivial Pursuit will save your family and friends, if not all of the features and content that we all expect from a decent CD-based title - none of your developers, here! - and with so many questions on the CDs, it's long-term enjoyment. And just here, no longer will you have to suffer the indignity of scribbling around the floor, looking for the missing board segment.



Buyers guide

version date	Oct 1989
genre	Trivia game
cost	£19.95
availability	Little and Moore
number of disks	2 CDs
number of players	2

SCORES 115.15

Just what the CDV ordered - this is excellent too...

GRAPHICS	90%
SOUND	90%
LASTABILITY	80%
PLAYABILITY	85%

OVERALL 86%



CALIFORNIA GAMES II

Steve Merrett didn't want to write an intro about 'donning his loud surf shorts and getting radical', so he didn't...

FALLEN HERO

Once upon a time, there was a software development team who called themselves Epyx – aptly, as virtually every game they produced was, indeed, an epic. From the incredible platform antics of Agent K and its impossible mission to the race action of the classic Passage II, Epyx's name was synonymous with quality. And when they took the logical step into the world of athletics, they did it with *Summer Games*, *Winter Games*, and *Summer Games II*. Epyx reached their apex. Whereas other Decathlon-style games relied on the player hammering their joystick for as long as it was worth, the Epyx games required genuine skill. Its fully-coordinated (and realistic) events were to be admired. However, as the series grew in number, so the events have got steadily weaker. And this is rather apparent in the latest addition to the series.

LEFT OVERS

The original California Games succeeded because its events were well thought out and easy to play. However, the special events that can only be described as 'left over' events – and it shows. Playing on a typically sunny California beach, you are invited to select an event by positioning a flagpost on to one of five, typically big characters. These 'Gubbs' represent the five events of Hang-Gliding, Snow Bowling (yes, it's sunny California), Jet Skiing, Merry Bowling, and Merry Bowling II – and after continual play, these events are

EPIC (FTE) Epyx started video game production in 1982 with the release of *The Temple of Apshai* EPIC, a platformer called *Jumpman*, and *Phobia* – another quality racing game. Following these, they then entered the world of sports along with *Summer Games*.

Distributed in the UK by Best Western's Spectraline, *Summer Games* went relatively unnoticed, but after Epyx's first

yearly release, the rights to import Epyx's stunningly impressive *Winter Games* and *Phobia II*, people started to take more notice of the California development team. However, it wasn't until *Summer Games II* and *Winter Games III* the name that they really took off. From there on, though, things started to slide out. Increasingly *Winter Games* is just as it was – more caught up like the original was, with the exception of California Games, this game series never really reached the glory heights of their predecessors. Perhaps it's time for a completely revamped *Imagined Winter II*...



They thought it was a strange idea once, when the snow boulder was used as a ball in the original, but they got it right – and then got even better at it!



repeated to be extremely frustrating – sorry, boring.

WHAT FINESSE?

Epyx games are renowned for their presentation and general funness, but these features are rarely found in California Games II. No more is genuine skill required, and when taking your destination through a series of long-throws or piling your body board against a single wave for points, there's very little feeling of achievement as the associated moves are pulled off. Each of the events is simply a matter of achieving as many points as possible by performing tricks with your Hang-Gliser/Body Board/Jet Ski/snowboulder, and while this is fine for, say, half an hour's entertainment, the aforementioned lack of necessary skill soon ensures that boredom creeps in.

Basically, it all comes down to we've seen it all before – and repeated better, too. The original California Games featured a snowboulder game that's a scoring tube rather than the original's half-pipe, and you would have thought that, with the advances in graphics we have seen over the last four years, that they could have come up with something better than this tedious effort.

repeated better, too. The original California Games featured

a snowboulder game that's a scoring tube rather than the original's half-pipe, and you would have thought that, with the advances in graphics we have seen over the last four years, that they could have come up with something better than this tedious effort.

WIPE OUT

I am majorly disappointed with California Games II as it is probably the lowest the series has sunk. There's no sense of innovation as are used in using in Epyx products, and no events which stand out as particularly remarkable – and even less that you'll play more than a dozen times. And, more importantly, there's no reason for you to buy this sad parody of a classic series... 3

Super guide

when this game was made	Out Now
number of disks	Sports One
number of players	Creative Materials
best bit available	Graphics
summary	1-4
	No
	Any Machine

U.S. \$69.95 £25.99

A complete treasury of a game – best avoided... 3

GRAPHICS	56%
SOUND	67%
LASTABILITY	43%
PLAYABILITY	53%

OVERALL 41%

GUY SPY

EMPIRE SOFTWARE

COMPETITION

WIN A PAINT BALL WEEKEND

Right, you 'write lot, pay attention when I'm talking to you! This is a matter of life or death... and it could very well be YOURS! Vile alien scum have penetrated Earth's defenses and have taken refuge at an ex-army training ground. Your task, should you choose to accept it, is to infiltrate Combat UK, hunt down the invading low-life and make them eat mega-death.

You'll be equipped with the very latest in paintball ornaments, including pump-action shot guns, and will

be given 300 paint pellets to wreak your deadly revenge. Also at your disposal will be gas bombs and thunder flashes.

Of course, we don't expect you to undertake such a dangerous mission single-handed, so you'll also be able to bring along five of your fellow Officers for a drubbing, too. The area of

inestation has been fortified with trenches, pits and craters as well as physical impediments such as swamps, hills and jungle-type woodlands, so you'll need plenty of physical stamina to overcome such obstacles. Once briefed on safety procedures, you'll be taken by your commanding officer into the alien's lair and given your team's objectives. The mission begins at 0845 hours and ends at approximately 1700 hours. Army rations will be served during the course of the day.

RULES

1. This competition is not open to employees of EMAP Images or Empire Software.
2. The winner's decision is final and no correspondence will be entered into.
3. The prize will be only available to those over 18 years of age.
4. Competition only runs to UK residents.

DISCLAIMER

EMAP Images and Empire Software can be held responsible for any injuries that might result from participating in the paintball weekend. So, by all means, break your neck, slip a disk or bust a leg - we really don't care, as you do it at your own risk!

WHO DARES WINS

The first prize consists of a full day spent at Combat UK, one of the country's premier paintball sites. The winner and five friends will have to make their own way to and from Brighton before Combat UK is located. All six participants will then be put up in a hotel and left to hunt out to defeat you. The winners will be playing with and against other members of the general public. All participants must be over the age of 18.

RUNNERS-UP PRIZES

In addition, for twenty-five runners-up, there are copies of *Ready2Go's* Guy Spy guide/adventure as filler. Can't say better than that, can we?



HOW TO WIN

So, how can you win such a magnificent prize? Easy. Just answer the following three questions, write your answers on the back of an envelope, and send it to: **YOU'RE IN THE ARMY NOW, CU AMICA, EMAP Images, 30-32 Farrington Lane, Farrington, London, EC1R 3AW.**

1. Which is the largest military unit?
A. Division
B. Brigade
C. Platoon
2. What is the highest military award?
A. Victoria Cross
B. Charming Cross
C. Red Cross
3. What was the name of the supposedly unsinkable German battleship?
A. Titanic
B. Bismarck
C. Maria Celeste



TENNIS CUP II

Steve Merrett takes to the courts of Loricell's Wimbledon-based sequel, and volleys a few shots and lobs a few high-balls before arguing with the umpire...

MEMORY CHEATS

I once read a book where some folks were whittling on about how the memory cheats — ie, things that you remember fondly may not have been so great after all. Take all those TV programmes you used to watch, for instance. When I was about ten, I used to be a massive fan of *Magpie and Mabel*, but on rewatching an episode whilst round a friend's house recently, the goodness in the book was certainly proved correct. The same goes for Loricell's *Tennis Cup*. Many a good game of *Tennis Cup* was played by myself and friends when U.S. Gold first released the game two

years ago, but on seeing this almost identical sequel, it's obvious that my memory was indeed giving me grief.

Once *Tennis Cup* II was loaded, the player meets the first — and seemingly only — addition to the gameplay. Standing in the reception area of what seems to be a rather spacious tennis centre, your library alter ego stands with his back to you, awaiting your control. By moving the joystick, the would-be Agassi can then opt to view a demo match or enter the game's parameters via two monitor screens, or pass through one of two doors to either practise your shots or enter a match.

On going for the former, the player is placed before one of those ball-splitting machines which proceeds to pump shot after shot towards you. Using the joystick, the tedious aim of this section is simply to master the game's oddball array of shots by hitting the balls back. Granted, the length and placement of each shot can be altered, but not to any great extent to make this section particularly necessary. Thus, with a quick prod of the Escape key, you are duly returned to the main menu screen where a match against a computer-controlled player has been lined up.

THE MENU, PLEASE

Via the aforementioned menu screen, assorted details regarding the matches can be altered. A choice of clay, grass, and concrete courts are on offer, whilst the length of each match and other such sundry aspects can also be tailored. As with the practice session, the match is viewed in third-person perspective behind the player, with a split-screen mode also allowing a second player the same privilege. It also makes for some very clever animation as both faces of your player are simultaneously animated. As can be expected, your on-screen persona is controlled



Reaching objectives rather than the usual positioning of the player is easy enough, but the timing when objectives are a little trickier and vital.

via the joystick, and, in a rather nice touch, if the player is left out of position, the computer will then step in to move the player into a decent returning area.

Although this system sounds like a double to master, actually returning the ball can be far from easy. As in the real sport, timing is of the essence, but the limited perspective used to depict the action makes this harder than necessary, as the court appears to be twice as wide as it is long. Obviously, the game comes with the ability to alter the placement and speed of shots, but these aren't quite as useful as they should be, and I found that leading my opponent was simply a matter of hitting a couple of shots to the back of the court before hitting a short cross ball just over the net.

COME BACK FRED PERRY

I don't want to sound too damning about *Tennis Cup* as it has some quite addictive — but not if you want a serious game of Tennis. The quirky nature of the controls and the subtly skewed court play mean that it never felt as if I was in total control of the game, and that most of my shots went flat.

When compared with Intergame's stunning *Advantage Tennis*, the

shad that *Tennis Cup* II emerges as a quite outsider. Another major gripe also concerns its similarity to the first game. There just isn't enough in *Tennis Cup* II to warrant a full *Tennis* title have an excellent addition, and improved in the aforementioned *Advantage Tennis* this is completely unwelcome.

buyers guide

where to play	Cost How Tennis can be played
grass	Indoor
concrete	Indoor
clay	Indoor
number of players	1-4
number of shots	1-4
last shot available	All

LORICELL'S T2S-98

The Fred Perry of tennis — out of date and slow...

GRAPHICS	66%
SOUND	62%
LASTABILITY	68%
PLAYABILITY	72%

OVERALL 67%



Although the animation on the players is excellent, there is no hint of a character when playing a shot or serve.

WHAT A POND

Initially, *Tennis* was the leader in the live-action video games, with Wimbledon and Wimbledon leading the way in video game development. It was amazing how many *Tennis* players resembled a cast of stars (my friend could only remember it with one name: Tim, that's right, the world-famous Tim) was based on *Tennis*. Although there was no real, and no athletic info or tips, *Peng* was actually rated as the most entertaining in the late 70s. In addition, the good thing about using *Tennis* as a basis was that *Peng* could have immediately become *Super* simply by adding a wing, but instead by the way the ball bounces, it was shown the computer to know that their reaction would, say, allow different shots — although they were actually the same.

[illegible]

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.



Cash out in front of the TV

MICRO PROSE

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26



27-118716

CASTLE OF DR. BRAIN

Steve Keen puts his nose to the grindstone and examines Sierra's latest brain-straining puzzler.

STRETCH THAT GREY MATTER

Conny Dale is the man behind such award-winning puzzles as *The Great Pan-Galaxy Game*. This is his latest teasing adventure and, although you won't find it as taxing as his others, you're guaranteed to have just as much fun.

The *Master Of Brain* is an eccentric scientist who specializes in the weird and wonderful, his translations everyday objects into astronomical models and experiments in all things bizarre. As luck would have it, he's in need of a test assistant and is advertising in a local paper for one. All applicants must apply in person and complete a series of mind-bending puzzles that the good Doctor has spread throughout his mysterious home.

The puzzles themselves are a mixture of the mathematical, logical, practical, and miscellaneous fun. Anything with an initial hint of "maths needed" fast, though, as the problems involving numbers are quite well disguised and presented in such a way that you don't realize that you're actually doing them. Some old

favourites such as the magic square (where you have to fill in a 3x3 cube with numbers from one to nine making all the rows add up to the same number) (ouch! numbers with more than nine look a little weird) and some circuit boards and solving binary problems as well as negotiating issues are all reminiscent of TV's *The Capital Game* or perhaps more of its sister BBC cousin, *The Adventure Game* (remember that?).

KID'S STUFF

The manual decides that this is a game for ages twelve to adult and this seems correct. On one hand, the appearance of the game and its graphics have a child-like charm, but the atmosphere created and the descriptions of some of the puzzles can easily sit at the product above that of a youngster. The three difficulty options, however, that the game will let you walk over for the long in-tooth, whilst when set on "novice" it provides just the right amount of fun and thought-provoking action for those with less of an attention span.

The game's not all fun, though, as the time spent accessing disks and



the lack of speed in each level are a genuine nightmare. The mountainous number of puzzles are extremely straightforward and often more than four seconds behind in other categories. I could say that this slowed my enjoyment of the game, and in most other cases it would, but *The Castle Of Dr. Brain* is so original I can't bring myself to dismiss it in that

manner. This is probably the only genuinely fun piece of educational software that ever came across and if you buy it for a child it won't be long before you whip it out of a cupboard when rights left for a go yourself. Great stuff.

Bugsy guide		
release date	Oct 1990	
genre	Puzzle game	
user	Single player	
controls	Joystick	
number of disks	1	
number of players	1	
memory	512K	

SIERRA £39.95	
Fabulous for while you learn...	
GRAPHICS	75%
SOUND	65%
LASTABILITY	80%
PLAYABILITY	74%
OVERALL 78%	

BUG BOMBER

Bugs is back in town and we don't mean the rabbit. Our Work Experience laddy, Steve Kern, sprays to kill in Kingsoft's insect bomb 'em up.

JUST BUGGING

Fans of Usaboff's recently-released *Dynabuster* will be shocked to instantly

at home with the addictive done from German label, Kingsoft. Taking control of one of four characters, it's up to you to guide your spritz around a

variety of levels, destroying the many bugs that have infested a computer.

The play area is viewed from a bird's-eye perspective, with different coloured tiles denoting the assorted hazards spanning the maze. You can use bombs to blast the enemies to smithereens, throw deadly thunder-balls to strike your enemy down, or lay mines and build protective walls to help you in your one-man onslaught. It's also possible to enter the aid of a bunch of tin-witted robots, whose fighting technique and intelligence can be improved by collecting the power-ups dotted around each level.

ARMED TO KILL

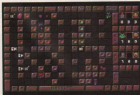
The manual is in no wise out of the many bugs that crawl around each level. Once the area is free of irritation, the player can then move onto the next level. As the 50 levels progress, more obstacles and nasties

food the player, and the going gets decidedly tougher. As well as your own arsenal, there are a variety of additional weapons offering the maze. These include extra speed, the ability to pass through blocks, and to fly extra miles.

The game's most attractive feature is the four-player free-for-all, where it's not only the bugs that need to be eradicated, but your fellow players, too. As with *Dynabuster*, this is the most appealing aspect of the game and definitely the most fun. The increased number of weapons available is a bonus over Usaboff's offering, but the awful graphics and positively non-existent sound tend to detract from the gonging on somewhat. Okay, the playability is the most important thing, but when a game looks as bad as this, it certainly detracts from the proceedings.

Bugsy guide		
release date	Oct 1990	
genre	Bomb game	
user	4-player	
controls	Joystick	
number of disks	1-4	
hard disk installation	No	
memory	256K minimum	

KINGSOFT £25.99	
Addictive Dynabuster-style romp...	
GRAPHICS	48%
SOUND	53%
LASTABILITY	83%
PLAYABILITY	77%
OVERALL 75%	



POPEYE 2

A life on the ocean wave isn't always a barrel of fun. Dan Slingsby eats his greens and gets stuck into Alternative's latest licence...

LIFE ON THE OCEAN WAVE

With a plot that mixes the classic cartoon, everyone's favourite comic-book sailor must rescue his beloved Olive Oyl from the damnable clutches of that evil sea-villain, Brutus, in this last-of-its-kind platform game.

Popeye II is a platform game in which the player must guide Popeye up a vertically scrolling screen in per-

suit of his anti-warrior and the girl of his dreams. On the way, our muscled-bound hero encounters a variety of obstacles, such as falling grenades, bombs, traps, floating springs, steam-thrashing monsters, and colliding machinery among many other perils. Each stage also features another popular character from the cartoon strip who will either help or hinder Popeye's progress. For instance, Wimpy will only let Popeye pass if he feeds him the tasty tomato soup which are scattered throughout the first level and Olive Oyl needs to be rescued before he falls off a high ledge.

Points are scored for every jump that's defused, the

number of hamburgers or tins of spinach which hit each level - and extra points are also available for rescuing Olive Oyl. Each player starts the game with three lives which are represented by three beating hearts at the bottom of the screen. After each mishap, Popeye loses some all-important energy. Each heart slowly decreases in size after each hit until it disappears, indicating the loss of one life. Use all three, and Brutus comes on screen to gloat at your incompetence.

COMPLETE DRIVEL

Apart from a chance to beat up Brutus and his goons at various stages in the game, this sub-standard platform fare with absolutely no originality. Popeye's creator must be spinning in his grave at this drivel. There really isn't anything contemporary I can say about the game, apart from its lousy plot. And that's really no excuse for this rot. None of



the atmosphere or flavour of the famous cartoon strip has been retained: the graphics are awful, the animation dreadful, the gameplay is boring, and the concept reeks of creative apathy. The most embarrassing thing about the whole affair is that the game's a sequel! I always thought King Features Syndicate took great care in protecting the integrity of their licensed characters. Is it there's every time-proof test. How may Alternative get away with such a poor game for the second time is a mystery. Left's hope it sinks without trace.

ALTERNATIVE 2 £7.99	
Is about as nice as eating spinach...	
GRAPHICS	44%
SOUND	31%
LASTABILITY	30%
PLAYABILITY	19%
OVERALL 22%	



LIVERPOOL

Marc D. Richards kicks off with yet another bout of soccer action, this time from Grandslam...

IT'S OFFICIAL!

This is it, footy fans, the official Liverpool soccer sim, featuring all the members of the greatest team. This is your chance to guide your favourite footy team (well, if you're a Liverpool fan) up the league tables as you play in both the FA Cup and League Championships.

There are plenty of options to choose from. You can practise on a try, medium or real pitch; add afternoon in the ball; and choose which way up the field you want to play. The section that'll appeal to Liverpool fans the most, though, is the team selection routine. Here, you are faced with twenty snapshots of the various team players, and you can even decide who you want in your team, and who to keep on the subs bench. You can even access an info page on each of the players' histories - although the true fans will already know most of this. Following this, you are ready to position your twenty-selected team on the pitch. In one of these formations, you will now be

ready to either enter the FA Cup or the League Championships.

HERE WE GO...!

Games are played virtually up the pitch, and are viewed using a wide 3D angle similar to that of PlayStation's *Goalie*. As usual, you first given control over the player nearest the ball, and you'll have no problems locating

your player - as he's indicated by four huge arrows at his feet. However, this is where the game starts to deteriorate. The player animation is poor and jerky and the speed is a little on the slow side. And as for the referee: he has to be the slowest official ever to grace the world of soccer if you attempt even the clearest and fastest of tackles. He'll be only you-quicker than a sniffer dog on a cocaine field, with his deck of yellow and red cards. What this basically means is, unless you want to risk being sent off, once the opposition has got control of the ball, it is all but dead to the computer-controlled Bruce Goodlammer to save your team from going yet another one down!

If you're looking for a Soccer sim

at the moment, *Goalie* is the only game for you. So, if you want accurate passing, convincing action and excellent controls, save your need for *Goalie*'s classic. To be fair, though, although not a complete disaster, *Liverpool: The Computer Game* is only marginally improved to real Liverpool fans and club-fans alike who submit who need yet another fix.

GRANDSLAM £29.99	
Is Average in every respect - there are better about...	
GRAPHICS	68%
SOUND	51%
LASTABILITY	67%
PLAYABILITY	71%
OVERALL 70%	



BUYERS GUIDE	
when does game come out	not now
price	Football Sim
name	68%
version	SN, Amiga
number of disks	2
number of players	1-2
last disk available	64
average	1 68%



STEG THE SLUG



STUN RUNNER

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26



SUPER MONACO GP

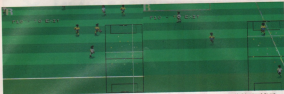
2011 RELEASE UNDER E.O. 14176

FALCON

Star of the Month **A** quality the
 famous light
 (the time, a good way
 and indeed will be a classic of water day.
 lighting. Photography: the low-contrast
 Monocolor over two years ago, the game puts
 you in charge of the Pro as you undertake a
 series of virtual missions. All the action is
 played out in a virtual world that is a

and I was into the first game to show you Kasper around the club while it was in flight. Everything about Kasper is polished and impressive - even when compared to the many more modern games which have since followed - and with the addition of a cable-based two-player mode, the fun is effectively doubled. It's a winning budget release, and if you are one of the handful of people who has never played it, skip everything you've read and go out and buy it.

ACTION IS OUT NOW PG-13



1. Whenever possible, always try to take the ball down the wing. Thus, as soon as you receive possession, shift a short pass across to your nearest winger or use it yourself.

2. ...from there, stay as tight as possible to the edge of the pitch and lay it down towards the goal. If available, use whatever the defender will be able to reach you, so you'll have plenty of time.

STRIKER

If Rage's excellent Footy sim is proving rather hard to beat, here are a few pointers from the development team behind the game...

FORMATIONS

Against absolutely superior competition it is difficult to control a computer-controlled opponent, always choose a defensive formation which also utilizes a sweeper system—5-4-1 or 5-3-2 are normally the best. Obviously, though, this method is reversed for the likes of Mexico or Chile, where the 4-2-4 and 3-5-2 formations allow you to attack more aggressively. Whichever formation you decide on, always make



sure that your style of play is suitable for it. For instance, if you prefer to make your attack by keeping it down the wing before crossing it in is the centre of the penalty area, then once again the two attacking formations listed above will ensure that a good number of players will be waiting to receive the ball.

Finally, if you find it difficult getting or keeping possession of the ball, then opt for a good mid-field oriented formation (3-5-2 or 4-4-2, for example). Then, when you get ahead, switch to the defensive positions to keep the lead, and vice versa if you are struggling.

GENERAL TIPS

1. Flanking down the wing is an excellent way to gain ground—just make sure your crosses are accurate.
2. When in possession of the ball, stay around outside the penalty area so that, hopefully, one of the opposition backs you down for a free kick.
3. Although everyone groans when John Barnes does it, whatever you are under pressure, always pass it back to your keeper.
4. Never use a player to chase an opponent currently in possession of the ball. First for a defender to attack them, and go in hard for the tackle—you'll stand more of a chance that way.
5. Although this is a rather obvious point, aim for the ball when tackling—not the player!
6. When an opponent has possession of the ball and is on the attack, it's possible to shoulder charge them out of the way without resulting in a foul in their favour. Practice this, though, as it can prove quite tricky.
7. Use sliding tackles to speed up your movement across the pitch and toward the ball.
8. Desperate times call for desperate measures.



GENERAL TIPS DIAGRAMS





3. ...at points in play near the goal, either kick it right down to the feet or attempt to chip it into the box, or force a long diagonal ball into the wing.

4. ...if all goes according to plan ... and it nearly always does ... a player should be ready to receive the ball to either a crack or just on a close impressive sliding header.

times, so always foul an opponent if they are looking as if they pose a threat. They stand less chance of losing from a free kick than they do a conventional shot.

8. Keep certain areas of the pitch rigorously guarded - ie, the corner areas, the penalty box, and any areas in this vicinity.

10. Force your opponent into a central attacking position as they are quite so adept when shooting directly at goal - and keep them away from the wings.

SCORING TECHNIQUES

These are reliable tactics which, even if they don't result in a goal every time, will allow you a chance to keep in and score from the rebound.

1. Run down the wing, and when you reach the byline cross the ball, adding afterwards as you do so. This will swing the ball out of the goalies' grasp and, hopefully, onto the head of one of your



forwards. Two quick jobs of the full-back should then send the last player in for a diving header.

2. What Pige affectionately call the 'Jimmy Jimmy' goal is a variation on the above method but, rather than heading for the byline, when you are roughly 25 yards in, guide from the byline, cross the ball into the area using short touch to swing the ball towards the goal. A forward who is running in from the right-hand side of the pitch should then be able to kick on it in a simple kick - and with the keeper well out of range.

3. When in the box, a gentle sideways kick in

front of the goal makes the keeper rather jittery, forcing him to dive for the ball and allowing you to take a easy shot.

4. The corner of the penalty box can be used as a real guide for an easy goal. Just shoot diagonally



in from it adding plenty of short touch and it will keep behind the goal.

5. When you take a corner, vary your use of short touch. When taking a corner from the left, add loads of right bending, and, obviously, the opposite from the right-hand side of the field. With a little practice, these can then be met by a well-placed



forward nearly every time with an overhead kick or header. In addition, heavy short touch when taking a corner can often result in a goal.

6. As a rule, ALWAYS follow through when shooting. This way, if the ball comes off for a rebound, you can meet it nearly every time.

7. It's also possible to shrike the ball around the goals by performing a diagonal run. Just pass him just far down, though, as the computer is very generous with his spot's destination. When you get past him, just run the ball into the net.

8. From a standing position directly in front of the goal, it's possible to score by rolling the ball around the keeper. Run down the wing and pass



the ball to a conveniently positioned player, who can then welly it around the unsuspecting goalie.

FREE KICKS

When taking a free kick, position the guiding line slightly away from the goal and around the wall if there is one, and, adding loads of power, foot the ball as hard as possible. Then just add afterwards to curl the ball just inside the near post.

Alternatively, just place the kick so that it lands at the feet of a player in the box - this should then disorientate the goalie.

Finally, for a laugh, (don't welly the ball into the defensive wall to see them all fall down, clashing their groins together) The Jimmy Jones School of Welly!

PENALTIES

These are extremely easy to cock up, but a pretty stiffy rule-free way of scoring is to wait until the cursor is to the right of the screen, before using a quick tip on the full-back to crack it home - press it for as long, though, and it will soar over the bar. As for diving penalties, this is far from easy. Basically, just take a guess as to which way he's going to kick it - just like real life.



1000

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[illegible]

Journal of Interpersonal Violence 28(10) 1991-2006

[illegible]

00 02	SPINNOFF FROM SHIRAZ AFTER [x] - Popcorn racing management game. Requires 1
00 07	SLACKER [x] = [x] - Possibly the best street set up around. Fully polished. Re-

00004 **STUDIO CITY, CA** **4** **Adventures 1.0**—Make your own text adventures with these text programs.

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[illegible]

6047 CALONE (SW) 1-4 - Respondent must not select RPL. When you're using a database on your culture matrix, it's good for doing.

6048 COTR (SW) 1-4 - Respondent must not select questions. Answer the matrix.

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ISHAR

RPG fans rejoice! Following on from last month's epic guide, here's the second and final instalment of Silmaril's fantasy adventure solution.

AN IMPOSSIBLE LOVE

Get crush on Inari's house in the village of Inarihar and he will tell you that his daughter has been kidnapped. One used to live in the city of Illering and if you rescue her and bring her back to the old port he will reward you with a vital key (you'll also find Thane in Illering, he will give you the Ironfist stone for later use). You will find Inari's daughter in the town square, but before you can persuade her to join company you took you'll have to lose a member of your party.

Leave the town by the road opposite to that by which you entered and return North to the village of Halidar and to Inari's house. One of your party has fallen in love with the girl and the only way he'll let her go is if you give him the anti-love potion (the essential ingredient is a forgotten spittle). Get the key and you will be advised to build a wall (four people in a line will suffice). Now go West - watch out for the sword - and take the teleport.

THE DUNGEON OF VALATHAR

Gather together food, water, oil, and treasure and search everywhere. Numerous passages open up thanks to the levers and the keys collected along the way. You might have to go in and be between the levers to strengthen your team and. Open the door with the key collected at Inari's house. At the first crossroads turn left and you'll find the house of the living dead brothers. More exploration reveals another key.

A VISIT TO THE DARK KNIGHT

Continue along the route to the East crossroads. Turn South, and fight the Dark Knight before continuing South. Another key can be found in the labyrinth. Return to the Dark Knight's Room and open the door facing the East crypts. Find the exit to the East at the end of the passage and turn North. Continue and retrieve the key from the out-of-the-way and use the levers to open up a passage. Return to the previous passage, continue South and then turn East (the passage opens according to the position of the levers previously seen). Follow the wide corridor until you reach the old library, collect the key and return to the Dark Knight's room. Keep going North until you reach a wall and open the door to the East.

THE WILD LEVERS

If you keep going East, you'll find a labyrinth consisting of two parallel corridors interspersed with doors which are operated by levers. Each one operates two doors simultaneously. Take the passage South then turn East, ignore the lever then access the one left. Operate the lever and return (leaving the door to the west closed). Turn right and then to the left pull the other lever on a full

turn. Now return towards the previous room (West) then turn right and left again. Pull this lever and you can still the maze by continuing along this corridor towards the East. At the end turn right and then left. You'll now find yourself in a smaller labyrinth populated by evil ghosts. Moving along the corridor in a fixed-way direction you will find a key and a teleporter point.

FOUL AIR

Traveling South, you must turn East immediately. At the end, turn left and you'll arrive at another room with a lever. Make each person drink the Mungus potion (Apoena), and pull the lever. Gas fills into the chamber, but you will be protected. Follow the corridor and look in all the nooks and crannies for treasures. When you enter a new chamber pull the lever and the gas will disappear. This room has two access routes. The one to the South is the shortest and easily interesting, but the path to the East is indispensable. After passing the skeletons you find another key in a East-outlet. Return to the chamber, pass through the area of foul air and exit the room.

CONJURING TRICKS

From the wide corridor you have to find an access point heading West which will lead you into a huge diamond shaped chamber. In the centre of the room a demon is casting spells at you. Tip the doors to the North and West and then take the access route to the South at the end. Continue in a

westerly direction and you come out into a broad corridor. Just to the right there's a lever and a passageway leading East. Follow this and open the door that's controlled by the previous lever. This is the entrance to a spider-infested room. Collect the items listed. This room has illusory walls so by them all and collect the different pieces you find. Now return to the lever in the corridor. There's a very large bayonet to pass through heading West (watch out for the ghosts). Try and find the door facing South in the second corridor. This door opens onto a small room guarded by a fearful Magician that you must kill and whose talisman must be taken. The talisman gives the wizard his strength. Exit the room when you have the item.

On one of the walls in the labyrinth you'll find three levers. The right combination of up and down must be found in order to open the door to the extreme South-East route.

FIX BAYONETS!

Follow the corridor and you'll come face to face with Medusa. The use of a psychic shield is recommended here. When she's dead, a flame-spitting dragon will try to burn you. He seems to let quite a rest off but he's not within range if you hit out. At the end of the passage will be a door. Cross the river in the north valley and open it. Kill the troll on the other side and cast a protective shield. Now teleport.

ISHAR

Finally you are in the temple of Ishar. Once again a very long corridor awaits your exploration. Before passing Krogh you will have to fight three more guards with fairly well-developed psychic powers. Use the psychic shield again and kill them. When it's over another protective shield could be useful.

KROGH

The grand magician casts flames of lightning at you and even if you manage to escape he will give chase so there's no other solution than to go in. Study just if everyone has a comic talent, and your Magician has the talisman. Krogh can cast anti-Krogh spells and Krogh is having a particularly fast day you might just do it. Now prepare for the end of game experience. ☼



From opening a door to finally making your way to a confrontation with the hideously Krogh, your journey through Ishar will be considerably less of a hassle to our computer players' guide. Please let us know.

ADVENTURE

HELP LINE

Once again, Toop Gil is here to aid any willing adventurers in the murky worlds of RPGs and adventure games. So, if you are far from a Dungeon Master, or just a struggling Knight Of Darkness, drop him a scroll...

TIME WASTERS

This month, I've been wanting just *more* of my life, stuck down the electronic rabbit hole offered by the Men of the Inner D-Mountain (aka, the Men of the Bachelor 3, and Night and Day 1). As far as *that* is concerned, I'm suffering from a great credibility gap between the review scores and my personal experience! I'm willing to believe that there is a great game buried in there somewhere and I am doing my best to find it - without much luck! If you have a hard time then it may well be worth the effort, but I would still be reluctant to recommend it. However, the Luscious Mountain island story continues to amuse and baffle. And for a company whose stated intention was to entertain and not discuss pornography, I find they should re-examine their policy, as they are giving me a headache. I like the game, but I don't intend to say that it's not hard, just in case you failed to notice something that's very important because you were too busy looking at the pretty pictures. I'll tell you that you need to Think *the size of the end of the bridge* to get the space.

As for the sign at the end of the bridge (or road) you see in the 1920s, it's not a coincidence that it has a sign that says "No more than 1000 cars." I'm sure they could have done a better job of the graphics (you could have seen the "No 1000 cars" sign), but, apart from that, it's a magnificent achievement and all the artists have to be doing themselves a favor if they buy themselves a copy of this book. The book is a great one to go to, however, and each new area is an example of the same thing. It's a genuine rarity, and the book and bricks all fit together to build up a complete story. If you don't like this, then you're not a fan of the book. Your things are more than you can't be much further coming along the path. - Steve Niles.



WILLIAM H. GUNST III

[illegible]

CONCLUSION

Man you and I may be wondering what wonderful new games we should buy next, but Tom Gates of Hudson has no such worries, for he is still playing *Blockade*. Come on ladies, grab it up! There are games programmers running in circles for the want of your cash. I'll only help you out if your present predicament is if you promise me that you'll invest in a game from the list! There are two games to be had and you tell me that you have only managed to get half of one. How do you know there are men to be found if you haven't found them last? Well, for Tom and all the other men out there, here is the latest list and all the info.

[illegible]

You can't wait until tomorrow for looking yourself in the mirror (and then in the mirror again). You should have the Main job by now, so it's time to get out. Press **Q** to exit the business in the Crystal room, and this will remove a pillar from the pit. Go to the east room and jump down the pit. Down there is a secret fairy and some armor. Go through the peninsula, then through the deepest room. Fly through a cavern, picking up the fairy and potion, and then use the key to enter the ice room with a train moving to the side. Find the grey key here then jump into two pits. Kill a dragon (look at the dragon in the cave). A human will show up.

ITE OF THE BEHOLDER IN

There are times when you are so hungry that pizza and water just can't make it, and Brian Vito of Birmingham has just experienced such a moment. Actually, it's not our friend who is so ill-timed but a group of six diners. Is this a waste later on what's having swished his way through the tastiest foods that guard the City of the Goddess's 15 pillars. Brian has some coolies across these magical coolies who

CIVILIZATION

If you're stuck on Sid Meir's latest epic, Andrew Luckett has been doing a bit of empire building in his spare time and offers these handy tips to anyone with global conquest on their mind.



Playing will often involve making your life easier, but make sure to think at the times when that isn't where they are. The skill here is your advantage when beginning.

RIGHT OR WRONG?

There is no right or wrong way to play *Civilization*—it's all down to the individual player and the way he or she approaches the game. The most enjoyable time to play is the halfway point with four civilizations competing against each other. Pick your little seeds at each leader (use different civilizations, e.g. Genghis Khan [Mongols]) can be expected to be your aggressors at the expense of developing his own cities, but Mao Tse Tung [China] is generally concerned with building a strong civilization and doesn't seek to expand aggressively.

Whenever you play the game it's always an advantage to have the *Civilization Advantages Chart* (found on the back of the manual) to hand. This can allow you build more advanced units quickly, e.g. Alphabet = Treasury + Mathematics + Cavalry unit. If, in the early stages of your civilization, you concentrate on the above advances you'll soon be able to build the catapult which is stronger than any of your enemy's units. It's also an idea in the early part of the game to lower the tax rates that increasing your science rate.

IN THE BEGINNING...

There are a number of strategies you can use at the beginning of the game to make things easier in the later stages.

1. The earliest units you acquire should be selected for defensive, offensive and mobility factors. Defend your home city first for use more mobile units to open up the frontiers of your civilization. Your first two miles or other military units should be used to defend your city. Prioritize the units in the city because they can only be destroyed one at a time. If you finally have a situation, even with two or more to a square, an enemy unit could destroy all the units in one sweep.

2. Whenever a unit becomes redundant because of newer technologies, always replace it for a more capable unit. It's pointless playing it out and feeding an older unit when more efficient ones are available—e.g. replace the Cavalry unit with a Knight unit when they become available.

3. Across the world there are many "hot" spots. Moving in to them can uncover wealth, wisdom, hidden info or angry barbarians. Because

of the barbarians you should only move onto these squares with a military unit with a high defensive factor.

4. When the technology ahead you will be able to sail, first of all in *Thames*—these are not deep water vessels and can be lost at sea very easily. It's always a good idea to keep them near to the coast, but if you get an opportunity to get to the nearest unsampled land mass, do so although it's extremely dangerous to stay in deep water for too long. When considering a voyage on a ship, you should always take a diplomat, sailor, and a strong military unit. With these units in tow, you can cope with any problems that may arise. The military unit will take care of any barbarians, the diplomat will make peace with other civilizations and the sailors will occupy any virgin territory.

OPENING HOSTILITIES

When playing *Civilization*, you can play defensively or offensively. Start off by building up your defenses and technologies and making peace treaties with other civilizations (do this so you can put all your energies into new technologies and building more military units). When a neighboring civilization becomes a threat or a problem, you will need to open hostilities, but before this you should get an idea of the enemy's technology level. To do this, you'll need to establish an embassy in an enemy city (use a diplomat for this). If the enemy is more technologically advanced than you, you might consider postponing your aggression until you are more evenly matched. You can catch up with the enemy in one of four ways:

1. Concentrate on research. Building libraries and universities and devoting a larger portion of your revenues to scientific research.
2. Exchange technologies with friendly civilizations (preferably not with the one you are about to go to war against).
3. Build a Great Library: any time two other civilizations obtain the same advance, it becomes yours as well.
4. Steal the technology by using your diplomat.

TAKE IT EASY

When you are at war, don't be too keen to take a breather during a long campaign. You can push your troops too hard—exhausting both your resources and your people's willingness to fight. From time to time, your enemies will offer to make peace with you. If need be, accept the treaty and use the time to rebuild your combat forces. During any respite from war, place ships on empty outside enemy harbours, just outside your land borders and fully units around enemy cities. These ships may ready to undertake spying and sabotage missions as soon as hostilities are resumed.

Later on in the game, you will be faced by the nuclear dilemma, either because your use of nuclear weapons will lose you points in the game, or because the enemy, after threatening your civilization, threatens to threat by revealing it a nuclear arsenal. An enemy is unlikely to use nukes, but



Keep your cities well guarded. It's no use having a wide spread of units if they have one hit or even to stop them out.

beetle carefully at the name. It's a good idea to build an SOS system in your capital city or other important metropolitan areas. If you use nuclear weapons you should have plenty of sailor units in readiness to clean up the mess.

WINNING WAYS

There are two ways to win at *Civilization* either defeat all the other civilizations (this may not be possible as they may be all strong as you) or win the space race to Alpha Centauri.

To win the space race, you must complete the Apollo program. After this you will be able to build parts of your spacecraft. As construction proceeds, keep an eye on its characteristics—Population, Support, Energy, Fuel, Flight Time and Probability of Success—all should be at 100% or more!

FIVE STEPS TO HEAVEN

1. The first population unit your starting has, the faster it reaches Alpha Centauri. The more civilians you attempt to deliver, the more your standing will weigh. Try to install two population units for every complete external package—including habitation, life support, and solar power modules—plus spares in launch.

2. Guard your capital city using it being your interstellar program is a very strong unit.

3. Watch the clock. You must reach Alpha Centauri before your reign expires.

4. If other civilizations launch before you do, you should make a mad dash for their capital in the hope of capturing it before their standing reaches its destination.

5. Don't launch unless your arrival time is less than 35 years. If it is more than that, add more fuel and population unit.



This doesn't always have to follow the advice of your opponent when making a move. It's a good idea to keep a close eye on them, keeping the advantage that you are at all times.

SPECIAL OFFERS

[illegible]

REFERENCES



SPECIAL OFFERS

[illegible]

18 Acorn Business Centre, Cullington Road, Wing, Leighton Buzzard, Beds LU7 8L8
 01525 611111 FAX: 01525 662222 & 662277 Fax Fax: 01525 663346 FAX: 01525 663356

AMIGA TOP 100

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EDUCATIONAL SOFTWARE AND ACCESSORIES

DISCUSSION

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EDUCATIONAL BUNDLE

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

Company Name	Address	City	State	Zip
The Corporation for	1000	1000	1000	1000
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PHASE

	Percentage	Ratio
Average for Beginners	12.5%	10:1
Average COB Capital Reference Guide	9.0%	9:1
Longshore Inside and Out	21.5%	12.5:1
The Little Blackbook COB	22.5%	15:1
The Longshore Reference Guide	14.5%	11.5:1

ACKNOWLEDGMENTS

	Starting Price	1990
Amiga 500/500+	\$199	799
Amiga 1000/1000+	\$299	1,199
16-Bit Amiga 2000 200+	\$499	1,999
16-Bit 1.3" Disk	19.99	29.99
16-Bit 3.5" Disk 10"	29.99	39.99
On-Line Modem—software with		
AmigaOne, AmigaTwo, AmigaThree		
Modem/Printer Cables	\$99.99	79.99
Agilent Display	\$199	199
3200 Amiga monitor	199.99	229.99
Graphic Tablet—display	79.99	129.99
Amiga Mouse	29.99	299.99
Optical Mouse	99.99	99.99
Quick Mouse	17.99	79.99

GRAPHICS

Graphics DDT is a series of articles which aims to help with all your graphical queries. As we explore the uses of DPaint, we will offer you useful tips and short-cuts which will prove invaluable in your work. This month, Peter Lee invites you to beam down to an alien planet...



Stardate, September 1992. The USS Enterprise, under the control of gifted CU Amiga readers, has taken up station around an endangered planet. Uhura has relayed a cry for help, and Spock is currently beaming down. Our mission this month is to draw the said planet and add assorted plot devices to it. There's no time like the present, so off we go...

BEAM ME UP

True, not a great deal has happened in the previous two episodes of Star Trek: The Amiga Animation series, but we've already covered a lot of ground in our efforts to bootleg where few Amiga animators have gone before. Using our air-rylfant based on a T'Pol incident, we've already featured some pretty handy animation techniques. By once again using DPaint's lifeless, 18-colour palette, we'll be putting the typical old-school animation style to rest, when you come to do your own home-made animation, you can call on your new-found skills, first to create each picture of the animation as a separate file. To do other episodes into a larger sequence later or played back in comic-book style. We'll get to saving and editing later as, for now, the most multi go on...

DPaint comes with many sophisticated image processing tools, and for the first segment of this month's animation, we'll be using the **Smear**

option. This allows colours to be splattered and mixed on screen. The effect is just what's needed when it comes to having Spock transport down to the planet. Kile is already there, animator's knowledge, but it will be time to see inside the transporter room and watch the Vulcan fade away. The effect is achieved in a similar way to the technique we used last issue when we built the text up from darkness. However, we need to improve this a little to give a realistic and convincing transport. The transporter room and Spock should be drawn separately, so that we can create an impression of the character without worrying about interfering with the background, as we work against a plain black background. Once you have drawn Spock, create 25 frame animation frames, and paste him into the DPAINT screen - which we'll be using as our drawing area for copying the image into the animation later. The start of the sequence should have Spock looking normal, as only the tops screen with him as it into the last five frames of the animation.

Set the Mode menu command to smear and, with a medium-sized round brush, brush up and down the drawing to mix the colours. After each drawing session, set the mode back to its original COLOUR setting and, using the fine brush tool, set away a little at the picture with black as your foreground colour. Thus, in addition to muddling the image, you are also erasing minute parts of it, too. Don't forget to copy each animated image from the screen screen into the next frame of animation, and control the look of the picture so that on the final frame Spock is just a memory. Once your frames are complete, pick up the image as an area brush and save it. Load in your background (the transporter room), and paste the animation on to it - making sure Spock fits into the transporter bay before you start the most much fun having a 10" out-

can and a 4" transporter! There is no need to have professional you can make this sequence to look as, by using the smoothing tool in speckling light blue throughout what remains of the image as a face, you can add plenty of leading tracks. Having seen the sequence on TV countless times, you should be able to bring your own interpretation of it while still retaining its magic.

GOING UP

Creating the sense of perspective can be achieved reasonably well using DPaint. In the same way we created the horizontal parallel lines, we can give the feeling of depth with vertical movement. Adding it to our storyboard context, we have seen the alien running across the screen, and now we want to see a close-up of Jim Kirk appearing from behind the foreground rocks ready to start the mission. The simple way to do this would involve a brush of the character popping up from behind a static background. But - and you may have guessed this already - simply isn't what we're about. We need to display a real sense of movement, requiring which requires on our animation skills. The effect has three main parts, identical except for the image we will be moving, and the speed at which it moves.

1. You need a background. We're still working with the 18-colour palette so all our sequences are compatible, but this doesn't prevent the design of some pretty weird and wonderful alien planets. Firstly, you must draw the sky in whatever colours you prefer - perhaps looking a few steps of blue or maybe a bit of red.



Frame 1 (left): Spock transporter

Now you are set - now you can start drawing and animating. You can save the first image into a file in preparation for the next one to be transported.



Showing a sequence of images, we have Kirk emerging from the transporter room. The background image was drawn by Peter Lee. Easy to use, but not as easy as you think!

ICS DRY

2. Create 20 animation frames based on the previous one.

2. Clicked to the same page to create the middle background. Choosing a two-colour range from the Palette requires either the options menu before filling, to give nice, pretty textures for the rock formations – quickly chosen with the fill tool.

4. Check local fire-rating listings and, if full support is needed, select units that meet appropriate fire-rating standards.

3. Call up the drive movement register, and enter a value of things 50 in the R-distance box. Presses the arrow to ensure the length moves down screen, then select Done.

8. If you need to add Kiri to the equation, so add him into the spare screen, and cut him out as a Ghost. Flipping between spare and main frames, you can position the Captain so he is fully visible, and while on the spare screen, register this position on the spare-screen - this is where he sat and left at the end of the sequence - by clicking the right mouse button.

T. From the first frame, call up the movement quadrant and enter a value of 2000 in the R box (no minus sign). Click on the four shading arrows (telling a plot—this tests DPGNMS activate the brush T2) the position are previously registered, not FROM it: as would normally happen. Press the same again and, if all's well, check the screen.

5. Finally, we need a foreground image which will begin by fading R10, before moving down to simulate a shift of camera angle. On the spare screen, draw the foreground to fill the lower half of the screen, using the same techniques as in the background brush. You should try to add more detail - like rocks and craters - to the world.

8. Cut out this foreground as a brush and follow step 6 again – but this time the brush needs to move more quickly, as we’re telling the eye that it is closer to us than the background. To do this, enter a value of minus 150 in the X box (making sure you deactivates the more TOI button – we want the brush to move from its registered position this time).

16. Preview, then draw the animation. (It should run kinematically, and so should you, having now mastered multi-directional parallel animation.)



TAPPING

Once this hair has emerged from the roots, the needle is like his weapon to slay the burning creature. While a laser tool would have sufficed, I decided on a stick of sparkling energy to subdue the alien. This is easily achieved and gives an immediately recognizable effect. First, using white as the base colour, draw several long, thin lines starting from a central point. Now pick up the drawing on a brush and, using light blue, press key D to outline the forks of energy. Do the same with dark blue to give a real glowing effect, and paste it down on the screen again.

In addition, the animation of Rik using can be extended to show for the gun shot. With the last frame displayed on screen, select the **AnimFrameAdd** frame menu option, and the current image is duplicated into an extra frame. Press the **A** key nine more times to repeat this and give us 10 images of Rik at the end of the sequence. Now put out the energy burst from the scope screen, and with the first static frame of Rik



These are individual frames from the 1982 *Shogun* color format feature film, including those from the opening scene.

on screen, register the brush as the energy ball's centre is on the weapon's barrel. Call up the animation menu request, and in the Z value box type 300. This will enlarge the brush in successive frames, to give the impression the ball is coming towards the screen. Finally, then draw

ALLEN ALLEN

Black box: The cause of cancer diagnosis

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

IT'S A REAL THING

It's not just the *business* that's important, it's the *people* that make it work. This book has answers - and ways of thinking about business - which is available from Public Health Services in their professional reference library for the cost of just 10p. Yes, only 10p! It's a real gem of a publication and you get all the bang for your buck. *And* - things have produced some of the best of health-related literature - ranging from business to ethics and education.

[illegible]

HOW TO PLAY

The figures show the maintenance loads have been greatly eased for the existing plant, and the process has proved to be one of the simplest and most effective. This effect offers a complete feeding of approval, and enables what could have become a long drawn-out effort into something agreed. It gets the entire team, points it into the required direction of change and gives the thoughtless task, under your circumstances. It gives them a clear view of the situation, and not just a copy of the situation. Since you've followed the steps, you'll find it as a consequence, and you'll find the solution. And you'll find it.

The wall told the other labels the other things will tell about you. All for tomorrow but you need to notice the Street Change Labeling Machine option. It will try and get as close as possible to the correct already stored for the ground, but you may have to manually enter some additional values if they are badly out of shape.

(Helen) When a mirror is half way of pointing down, an observer across the mirror should notice the image being "upside down." Using the viewing cone, for example, here's how it's done. Using the right illustration, notice the line drawing and, and notice the number of images at the 1 o'clock line. Notice the line angles and your observation angle. And, now the left mirror has and there is a line from the end of the mirror to the right. Your mirror beam will hit several and, rotate you let go of the mirror. Subsequent light beams will be drawn into the mirror surface.

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Captain Diamond has asked me to personally thank everyone who entered his competition last month, 846 in total, it's nice to know so many of you realise that some dealers are just after your money. So remember **YOU CAN'T BUY CHEAPER THAN DIAMOND**

	Obviously we are still not allowed to print the names of the dealers who commit to compete with the mighty Captain Diamond when it comes to the best possible price. (Prices taken from August Amiga (Shipped))										Diamond Price
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New 68000 1 + Turbo 2 game	After promotion by Philips was based around Diamond Diamonds ending price on the racing circuit obviously we have the new Christmas promotion before anybody else, hence they can't price it yet. As always Diamond are first again in listing you all the new products.										£299.95
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If you bought CDTV and are now living to regret it read on

"...Commodore made multimedia available to the masses with the Dynamic Total Vision (CDTV), but it looks set for dinosaur status in the light of Philips' Impressive Compact Disc-Interactive (CD-I). Chris Cain's (Senior Staff Writer PCW) comparison of the two systems gave him the best hardware experience he's had for five years..."

Personal Computer World July 1992

Did you bet on black and it came up red?
Did you buy Betamax when everybody bought VHS?
Have you booked your summer holiday in Yugoslavia?
I bet you've got CDTV.

We'll don't worry we won't take the micky anymore because you are not the only person who fell for all the hype, but don't panic, Captain Diamond as always is here to save the day. You can bring your old CDTV into any branch of Diamond until the end of September and we will give you a brand new all singing all dancing CD-I system for

only £399

Due to the excessive demand from last month's adverts for this great product Diamond have not only dropped the price but we have widened the offer to include Amiga 500's & 1500's. So come and see the experts and judge the two systems yourself before making a decision.

WE KNOW IF YOU WANT THE BEST BUY, CHOOSE CDI

Within the next section anything can happen. Every month, we will be getting to grips with strange new software, seeking out intelligent peripherals and inviting you to...

GET SERIOUS

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The software may look a little simple, but at least you can make out what everything is. Translating that, though, is a different matter entirely.

AUDIO GALLERY: RUSSIAN

Comrade Veltchski takes a look at a new way to learn an old language.

LEARNING THE LANGUAGE

It's always been difficult to learn a language. You can always buy a set of books, but when you come to actually speak, nobody will understand it except you (if any). As ever, though, there is always a solution. Fairbrothers Inc. have decided to try and harness the neural capabilities of the Amiga, with its colourful but memory-efficient screen display to provide a true multimedia approach to learning. It has been proved that teaching is more effective when several levels of data are presented all at once. Audio Gallery spreads over eight disks, provides a series of 20 images, all of which are linked to a particular theme - e.g. the weather. Individual items in the pictures are numbered and clicking on the number prompts a digitised female voice who pronounces the word in Russian. The Russian text and a translation appears in a window at the bottom of the screen simultaneously. With about 20-25 different items labelled on each image, this gives a total vocabulary of over 400 words.

When you have experimented with all the words you can use the same system to test yourself. There is also an auto testing mode available where the computer will ask you to translate English into Russian or vice-versa. The answer is chosen via a slide in that multiple choice session, which is not the most accurate of tests, but it works quite well.

NO UNDERSTANDING

The confusing Russian alphabet is portrayed in authentic 'fashion' on the screen, but a look at the Russian in 'Triple Marine' is included to aid recognition. A complete on-line dictionary is also available (top within the program), but it very rarely takes the words used in the program and no pronunciation is available in this section. It may seem a bit gimmicky, but this system actually works. Within a short space of time I had learned at least ten new words and could take a good guess at most of the others - its longevity is a little limited, though. This is exactly the sort of software that should be released on CD-ROM, since undoubtedly the space consideration is what limits the vocabulary. Combined with the book, though, it is an excellent tutorial package.

ADDRESS BOOK

Fairbrothers Inc, 5000 E. 22nd Street, Arlington, Virginia 22206

FAIRBROTHERS INC. DATA

You, too, can learn Russian with this complete package...

BASE OF USE	98%
VALUE FOR MONEY	74%
EFFECTIVENESS	55%
POSSIBILITY	88%
INNOVATION	83%

OVERALL 87%

written, sent as a document containing only the key parameters that they need to work on. The document will be scanned by the computer and converted into a high-resolution image.

When scanning documents, you can also generate two-page documents in a single scan. Other advantages include the ability to scan multiple pages and the ability to scan multiple pages and the ability to scan multiple pages.

In the image, the scanner has scanned the text quality to a resolution of 300 dots per inch.

SUPRA FAXMODEM

Nick Veitch gets his fax right as he looks at Supra's new approach to data transference...

SUMMER'S DISEASE

Without any definite figures in print, it's still a fairly safe bet that a large percentage of the machines owned privately in this country have originated from the Supra corporation. They are a big name in commerce, so it is not surprising to find that they are now introducing a whole new line in fax machines.

Generally, a fax machine is a modem with a scanner attached to it. The paper goes in, the image is scanned and simultaneously the data is transferred via telephone to another fax machine at the other end of the line. The data is transferred in more or less the same way as a modem at speeds of up to 14400 baud. Because the data is stored in an encoded fashion, though, it is important to just take an FIF file and download it over the phone. A fax modem is just a modem with a few customized fax chips connected—all the hardware linking it to the computer and to the phone line is identical to that used during normal operations.

DRIVER SOFTWARE

When operating in fax mode, the faxmodem behaves in a slightly different way and responds to different commands than a normal modem. In special driver software is required. There are a few programs around, but First Choice, who are importing the Supra equipment in to this country, are looking to bundle their utility with GP Fax, an impressive-looking piece of software from Australia.

ADDRESS BOOK

First Choice, Unit 8 Arundel Park Court, Cecil Street, Leeds, LS13 3BA. 0532 437988

FIRST CHOICE 2.40

Cheaper and more effective than two separate units...

EASE OF USE	88%
VALUE FOR MONEY	90%
EFFECTIVENESS	89%
RELIABILITY	88%
INNOVATION	88%

OVERALL 88%

When receiving a fax, the software simply downloads the data and renders it as an FIF file which can either be displayed on screen or simply printed out. Sending data is even easier. Just convert a normal text file into a FIF file and send it, no paper required. Pages sent this way actually turn out better than when using a normal fax machine, so there is no scanning process to degrade the quality of the text.

You can include standard FIF images in your faxes, but it is best to make them transparent only as greytones don't turn out so well. GP Fax will even allow you to customize covering sheets, automatically add your signature to the end of a file and even schedule the faxes to be sent to a group of numbers at a specified time.

SAFARI FONTS

Nick Veitch goes on Safari as he gets to grips with an elephantine series of excellent fonts...



Some of the fonts in the set are classic typewriter styles, which you don't see that much anymore, often from books.

SCALEABLE FONTS

Scaleable fonts differ from the standard bitmap versions in that they are rendered in the screen resolution. Instead of a great big list of information about the individual points in each font, a scaleable font merely contains the mathematical definitions of the shape of each character. This may make the font file a lot bigger, but it does mean that you don't have to have a different file every time you want the font to appear at a different size—a scaleable font will be rendered as and when it is required.

Again, because the Amiga didn't start off with a standard of its own, so the early software that wanted to use them had to adapt their own. Font Desk started using the Apple standard. Computer fonts in their software, and even enough, so did all the other GTP packages. When Microsoft adopted scaleable fonts, Commodore also chose the Computer standard, but in a slightly different format. The real pity is that most fonts are available in the Adobe standard on the Mac. Fortunately, Font Desk have a conversion utility that will translate these fonts into a Computer (or GTP) format. There is a similar utility available for users of PageMaker.

DESIGNER FONTS

On the Macintosh there are several font designing utilities, so a large number of fonts are available in Public Domain or Shareware. The fonts available in the collection all come as Adobe Type 1 files so you will have to convert them before use.



Some of the fonts are instantly recognisable, but because of better quality, when you display them on your monitor.

The Font Desk CD Update program is provided on the disk if you don't have the latest version of Professional Choice or Professional Page, so that once the fonts have been converted they will work with these programs. The conversion utility isn't bullet-proof, so you may have a bit of trouble with the more complicated files.

FONT-TASTIC VOYAGE

The fonts themselves are quite impressive. There are around 70 fonts in each collection of five disks, covering many different styles. A few of them are not particularly useful, the kerning and the alien font which are completely illegible, even if they do look quite nice. There are two excellent Star Trek fonts though, so now you can make your own writing machine and finally go where no video caption machine has gone before. The quality of the fonts is very impressive and far in advance of most of the Public Domain ones that are surfacing. Remember also that if you use these fonts commercially you will be held responsible for any copyright infringements, so it's best to get them from a reliable source and not some German pirate band.

If you are looking to expand your font library at a reasonable price, you couldn't do much better than taking a look through the sets offered by F.M. Computer.



Supplied with the set is the Font Desk CD Update program which will allow you to update the fonts with PageMaker.

ADDRESS BOOK

FM Computer Graphics, 8 Edith Road, Clacton, Essex CO15 1JG 0205-431389

FM COMPUTER GRAPHIC 2.10

Quality fonts at a reasonable price...

EASE OF USE	76%
VALUE FOR MONEY	77%
EFFECTIVENESS	80%
FLEXIBILITY	85%
INNOVATION	80%

OVERALL 84%

migraph ocr

Always one for the easy life, Nick Veitch scans some software which could free you from hours of tedious typing...

TEXT WITHOUT TEARS

Does the thought of duplicated effort annoy you? Are you the sort of person who would rather spend two hours writing a program that solves simultaneous equations than spend two minutes solving one? You are! Then read on.

OCR, or Optical-Character Recognition, is a process for converting printed type into computer-readable ASCII text. Using a simple scanner, an image is built up from the printed text. The computer then tries to match character patterns to ones stored in a database. By analysing each character separately, words are built up and the text is then saved as a standard ASCII file.

Migraph OCR is the latest development of a technology dating back to the late sixties. It is a tribute to those developments that such a system is now available which can run quite happily on an ordinary home computer — such as the Amiga — equipped with a fairly standard hard disk.

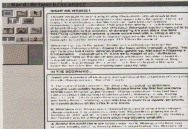
THE INPUT

The first step is a quality result: scanning a good image. If you have a Migraph-compatible scanner, you can scan the image directly from within the program. This doesn't make a great deal of difference because it's just as easy to use your custom scanning software to scan and then load up the image before loading it in, but it means a scanner that's never been fed before is going to be better.

There are three important things to bear in mind when scanning the image. The first is a bit obvious — you must fix and get the lines of text as close as possible to absolutely horizontal. If the lines are skewed so much that the beginning or the end of the same line is at the end of the previous line it will be a nightmare for the program to work out what is going on. The next important consideration is that you scan at the right resolution. Migraph OCR works by analysing the images of the characters and it's not going to be able to do that if they are all only a few pixels high. Finally, you should adjust the scanner settings to get a decent contrast — for instance, no black letters, a grey-white background, and a very low noise level. Of course, a lot of this will depend on your own printer.

SELECTION BOX

Don't worry if the text is arranged in columns, or even if there are graphics mixed in with it. You can select



Once the image has been scanned, you can select areas of the image to process. Then, the extracted text is processed and saved as a text file.

areas in the scan using a standard box-drawing tool so it is relatively easy to ignore annoying things like headers and footers or parts of the page. The boxes can be requested, too, meaning that you can call up some associated sections of text as a continuous document. Simply by putting boxes around the text and dragging out headlines and graphics, you can edit all the text off the page and leave the rest behind. The only thing to beware of are different font sizes and styles. Migraph will be confused if you have the same text in different sizes, so you'll have to crop out headlines and the like. Font size can also cause a few worries, but it's best to force the software to crop these characters so it just follows the edges of single-size characters that follow text.

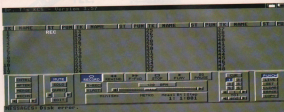
THE LEARNING CURVE

Migraph OCR sets up dictionaries to deal with particular styles of fonts. This doesn't mean that you can't use a 10-point font through a 14-point dictionary, but it does mean that you should use different files for very different families of fonts, like Helvetica and Times. Having loaded through the PP and posed out the

lines, words and individual characters, Migraph then tries to match them to what it expects to see. If you are still having your dictionary problems, it's advisable for the first 200 words or so that a requester will appear asking for active character characters. A small area of the screen will be also displayed to make it easier to establish the context of the word. If letters are touching in the scan then the software can confuse them both for a single character, but this can be easily corrected by typing in the two correct characters. Similarly, a single word area of scan may look like two characters, so you can correct this by typing in the two correct characters. If you are having problems with the software, it's a good idea to check the documentation, which is available in the form of a book or a manual.

CONCLUSION

This software is outstanding. Without even having it to recognize a few features is obvious at least a 10% success rate with even the most of fonts. The only drawback is that it does consume rather a lot of memory. It is required for processing even small files, and sometimes the scan has to be in memory at the same time. It is a reasonable-sized disk of 50000 in 84-page takes up a couple of megabytes. It



KCS V3.57

Is Dr T's latest Amiga package really the best in the world?

Tony Horgan knows the score...

HEAT AND TIDY

Remember when you feel you've Arrived? You thought it would all neatly fit in the corner of the room, with a little box of tools sitting idly nearby. And so it did - but not for long. Before you knew it, you had stacks of disks appearing on any horizontal surface, all sorts of wires and boxes protruding from the computer, and a sea of cables connecting the ever-expanding mass of outboard gear. Well, here's your chance to put a bit of order back into the chaos, with a complete MIDI sequencing, mixing, mixing and notation package from those chaps at Dr T's.

Rather than just one program, you get no less than four in the package: KCS V3.5, Tiger, Automa and Quickscore, each of which specialises in one particular field of MIDI music-making. However, this is far more than just a bundle of MIDI sequencers. Once loaded, they come together as one, interacting with each other in total harmony. The idea is that you record your song with KCS, arrange and control it with Tiger, mix it with Automa, and run it out to a computer with Quickscore. Anything you record in the sequencer is automatically written into the editor, and you're free to jump between all four programs whenever it suits, with no loading or saving of files to slow you down. It sounds great, but does it actually work?

KCS

It all begins with KCS which acts as the nerve-centre of the system. On loading, you're presented with the reassuringly familiar tape-deck-style transport controls: bold icons for record, play, rewind, fast forward, stop and pause. With the record button already engaged, you're ready to go.

The moment you play a note on the keyboard, the sequencer starts recording. Initially you're given an almost-endless track on which to record,

each set a few chords, a lead, or whatever, and keep going until you come up with something you're happy with.

Now you can start building from your initial track. KCS automatically switches into the next free track, demonstrating its own kind of hands-free recording. With the basic keyboard laid down, you can then define those bars as a loop. Using the 'Music new track' option, you can record your leadline or whatever over the top. The looping track you set at the start will loop for as long as you like, while your overdubs are recorded on subsequent tracks. The track mixing feature, combined with the loop, allows you to make multiple takes of your materials, without needing to stop

and go back to the start each time. When you're satisfied with any one of the takes, it's a simple matter of hitting the stop-button, and deleting the previous external tracks.

Unlike many sequencers which may give you 16 performance or 16 channels apiece, but to low recording resolutions, KCS imposes no such restrictions with its maximum 384,000 notes per quarter note storage rate. This does mean, however, that if your playing isn't water tight, you might need a helping hand from the quantisation functions. There are two ways you can go about quantising your work from KCS. The simplest method is to toggle the QUANT button on the control panel. Now anything you play is automatically



Once you're mixing together your instruments, you can use the graphic editors of Tiger to bring things up.



Automatic mixdowns increase a quality with the Automa module.



Using internal velocity is a fairly subtle addition to the mix.



Changing from one program to another is as easy as clicking on the program from the menu.



The Automix interface gets control things in one window, so you can concentrate on your sequencing.

pulled into time before it's put on the current track. You can still vary the degree of quantization, but auto-quantization cannot be undone. The alternative is to use the numeric editor.

Up to now, you haven't been able to see what you've played. The numeric editor gives you the chance to examine and correct your "musical" details. A spreadsheet of letters and numbers tells the most alarming sight when you're halfway through a virtuoso performance, but it soon becomes a list of errors.

Using the vertical slider to move up and down the current track, you can pan and alter the channel numbers, note and velocity values, and their order in the sequence. Changing a single parameter (the duration of a note, for example, is just a matter of clicking on the appropriate value, and entering a new one. If you want to get into

some heavier editing, you can select a whole range of notes, and perform identical transposition, velocity shifts and so on.

The designer's sampling abilities are one of its strongest features in my book. Unfortunately, partly because a lot of sample sequences start out on the Atari ST, sample support has been pretty poor to this point. KCS does accommodate single samples, but it means an afterthought.

Once loaded, samples are assigned a MIDI channel, and treated as if they were triggered from an external sampler. This adds up MIDI channels, but keeps things simple. Unfortunately, it's all rather too simple at times. An edit sample editor module would have been handy, and it's extremely frustrating in its insistence that all samples should be in 8192 format. If you've got loads of raw samples, you'll have to convert them to 8192 before you can load them.

There are also options to synchronize your sequences with the Forest PB tape machine, and a choice of using the Amiga's internal clock, a MIDI clock, or song pointer messages.

TIGER

So far we've been talking of the standard personal editing system. This is where Tiger comes in. By loading it directly after Automix, you can jump from one to the other via a menu item at the top right of the screen, which lists any other programs you may have running at the time. It's a lot easier than pulling menus up and down to get from one program to the next. Unlike KCS, Tiger hasn't undergone the Modbusch 2-style graphic makeover. The minute test, and far from bold windows take a lot of getting used to, especially after the neat and clear style of KCS.

The screen is occupied by two main windows. The top window shows the note data, displayed in the usual piano roll style, with note lengths indicated by horizontal bars, and velocities shown as vertical bars. The bottom window is used to display and edit controller values.

A row of icons along the bottom of the screen are used to change the function of the left mouse button. Click on the "test" icon, and you can activate any group of notes, which then become the

subject of any operations you perform, such as quantization, pitch changes and so on. A more direct approach may be to select the specific function you want from the icon strip. Click on the right duration icon, and you can alter any notes' duration with the mouse.

The same system is used for velocity editing, so most you've mastered one, the other will come easily.

Beneath this is the controller window, this relates directly to the note data in the window above. From here you can draw smooth changes in any controller you like. As with the track window, you can edit at just about any resolution, using the zoom function to move in and out. The advantage of this is that you can come up with incredibly smooth changes in pan, volume and so on.

The step editor works well enough, but could be made to cut. As with the rest of the package, Tiger is very powerful, but it can be fiddly to use.

QUICKSCORE

With your masterpiece in the can, you might want to run it out to a printer in proper music notation form. This is a breeze with QuickScore. It's really nothing more than a matter of hitting the "print" option, and watching it score your whole track for you. There are a few options to control the density of notes to staves, but that's about it. Quick and easy. Just as it should be.

CONCLUSION

Before the package has its faults, the good far outweighs the bad. The often confusing array of features is one of its best points. Any one of the programs are as such would be fairly impressive, but when they all tie up together, they really come into their element.

Because each module specializes in its particular field, you're not short-changed with a half-baked graphic editor, or a mean score printer. The inclusion of Automix brings the world of automated mixing to the masses. For a change, the programmers have made excellent use of the Amiga's superior hardware. You won't find a more powerful, complete MIDI sequencing package anywhere—or any machine. **B**

AUTOMIX

All of the modules that make up the package, Automix runs highest on the "ease-of-use" test. You can sometimes say that it makes sense to you as you get answers in back-end press you feel better a little, compared to an old MIDI sequencer. The test track can be assigned to several voices, while the follow-note control just for examples, then, when you play back your sequence, all your movements in the mixing field are recorded along with the sequence data. If you're happy with your mix, you can just copy it into your sequencer module. If not, just as you're editing your notes into the sequence, you can go back and re-do your notes, pan and so on with your sequencer.

Last level of feature can be assigned to any MIDI controller, and can even control flying back as MIDI mixing device. Let's take you in control of the volume and pan mixing, but you'll get another controller to the mix down. All you do is read a number. Automix will assign the banks to the appropriate controllers. You can then play back the sequence into tape, while the first is playing your edited mix automatically.

There's no need to also take of mixing tape into the center to control your when to take back. There's a point in the mix, and you can use the mix to some other mixer. You also get useful ability notes to let you know what's happening and when.

KCS

Automix's ability to make sequencing your own. Automated editing, like a MIDI sequencer, is a lot of work. Automix's ability to make sequencing your own. Automated editing, like a MIDI sequencer, is a lot of work.

Automix's ability to make sequencing your own. Automated editing, like a MIDI sequencer, is a lot of work.

Automix's ability to make sequencing your own. Automated editing, like a MIDI sequencer, is a lot of work.

ZONE DISTRIBUTION & PPS

The most complete MIDI package on any machine...

EASE OF USE	79%
VALUE FOR MONEY	94%
EFFECTIVENESS	93%
FLEXIBILITY	90%
INNOVATION	94%

OVERALL 91%

kindwords3.0

Is it third time lucky for The Disc Company's notorious word processor? Nick Veitch spells it out...

IN SEARCH OF...

Everyone is looking for something different. Some people want a word processor with lots of decorations and features; others want to import graphics; whilst even more seem to think it really important to load and save in almost every different file format. It goes without saying that it should be reasonably fast and easy to use. It's not surprising that there is such a diversity in the word processor today. Nobody could produce a program that is at all things to everyone. But still they try. There has got to be at least one word processor designed specifically for any one task that you can trust. A large number, though, are designed to what is now known as large publishing—a sort of mini-OTP. Kindwords 3.0 is one such program.

Kindwords has had a lot of a subsequent history. The original version was thrusty but apart in every more it appeared in. This latest version is completely different so there is little remaining from the original apart from the name. In fact, Kindwords 3.0 is a bit more like its competition than either of its predecessors. In fact, it is one of the competitors—a word processor on the text engine of English Wordstar.

TEXT HANDLING

Using standard fonts on a four-colour screen, Kindwords will seem to lay dormant if you get up a good head of speed when typing. This is more than a bit annoying and doesn't happen on a dedicated text cruncher like ProWrite Word Perfect. As you would expect from a package with this sort of text there are a lot of text formatting options. Apart from the rules and tabs set-up nine almost as tight on any page-outublisher, there are also a whole host of line-spacing and justification options. If presentation is important to you then these options should provide you with more than enough to fiddle with. You are not going to find more

typography options anywhere else with the exception of a full-blown DTP package. Headers and Footers options are available—as are automatic insertion features. Many programs read the system date and insert it as an option but I haven't seen many which have the option to automatically update the time or date when it is printed out. This means you could have a standard letter-head including the date and all others would be static (and time). In fact, there is a warning against all date/time stamping in the program. The document information screen contains, amongst other things, the total amount of time worked on the document, and the time spent during this particular edit. This is quite useful if you are charging for work by the hour as you have a record of exactly how long you have spent on each file.

PICTURE PERFECT

The ability to import bit-mapped pictures into text documents enhances the image of your document and of your employer. Kindwords will accept any standard Amiga IFF (including HAM) image of any size. Having selected the graphics to place, a requester will pop up with textflow and mapping options. You can select colour zero to be transparent, and this is useful if you are trying to run text around an irregular object. If you are using a HAM graphic, understandably it will take rather a long time to create a screen image, which it seems to only going to be in 16-colours anyway—it's probably a good idea to use something like Pixmap or ADRW to convert the image down before importing it. The text flow options are fairly comprehensive, and the screen does operate on a dynamic refresh if you move the picture about. Picture handling on the whole is quite good, but the lack of a cropping option means you are going to have to spend

some time with Offshoot or an image processor to get them right.

THRILLS AND FRILLS

The ability to write on a 16-colour screen makes a difference when you are trying to work out the detail in a picture. Unfortunately it also means the refresh time is about four times longer. The slowest is by far the best on any word processor but though perhaps the way in which words are looked up could be made a little more intuitive.

KINDWORDS 3.0

...in a glance

"Simple graphics support," "Thematic," "Thematic," "Multiple documents," "Advanced document format," "File management," "Automatic date and time."

Support (two years, 24h HX), and is available from CompuLink, Unit 6, Park 11, Newlands Road, Colchester, Suffolk, CO1 1 0YU. Tel 0206 930000.

KINDWORDS 3 £49.99

A competent and user-friendly word processor...

EASE OF USE	76%
VALUE FOR MONEY	80%
EFFECTIVENESS	80%
FLEXIBILITY	82%
INNOVATION	76%

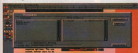
OVERALL 79%



Text viewing screen's picture area (padded on a copyright line, an average document text considerably more interesting).



A complete screen of text document in app. Evaluation if you have a memory as good as 640K—100%.



The resources is easily the best thing of the word processor. From the editor to use.



Text pictures are given a transparent colour to fit irregular word-wrap.

imagine V2

John Kennedy is almost rendered speechless by the latest version of an old Amiga favourite...

GRAPHICALLY SPEAKING

So one will argue that graphics are what make the Amiga special, and nothing looks better than a really good (ray-traced) image. Ever since that near-accidental HAM mode was discovered by programmers, realistic pictures produced by rendering programs have fascinated Amiga sales and tested magazine pages. Over the years, such pictures have become more and more realistic and, with the advent of 64-bit video boards, the Amiga can now create photo-realistic works of art — as long as you have the right software.

Steve was one of the first ray-tracing programs available (although the term 'ray tracing' is a bit misleading as we shall see) and has been responsible for creating some remarkable pictures. It evolved into Imagine which has now been updated to version 2. Once again you're going to have to catch your breath.

HARDWARE

To run Imagine, you will need an expanded machine. As we've expected, your HAM limit must start at 2-1MB, and a hard drive is all but essential. I have been using Imagine on a (250) Plus Rate, 1MB Chip RAM AG300+ with a GVP hard drive unit, to be honest, anything less than this wouldn't really be enough. You would probably survive on a laptop, but if you are going to buy a software package at this price you'll have had to buy a hard drive first.

To put together either a single image or an animation, you will need to master the many editing screens. Imagine provides, listed screens, supply the traditional 3D-view windows (top, front, right), along with a pretty 3D wire frame. The Paint and Detail Window are where your objects will be created — the former screen is used for polygons or segmented objects, the Detail screen for tweaking and assigning physical attributes, such as colour, texture or reflectivity.

The Cycle editor is used to control the various positions and shapes an object may have if it is mov-

ing. Again, a 3D wireframe-generated background, surrounding 3D objects moving from the camera. Below the animation is a timeline, with 244 positions. Again, this is not a hard limit, but a suggested time base (later when rendered with images).

ing — a car's wheels spin, a person's legs walk, and so on. If your object is static, there is no need to use the editor. Additionally, the Stage editor provides control over the composition of the various objects, and the positioning of the light sources and imaginary camera. It's here where objects can be linked to paths to describe their movements, and a miniature two-frame animation can be created to fine-tune everything. Paths can even be assigned to paths, to allow complex movements to be choreographed quickly and easily.

ACTION-PACKED

From the Stage editor, the next step is the Action editor. This is the first editor not to feature the tri-view display and wire-frame model. Instead, each element included in the staging process is available for editing, their complexity varied over the length of the animation if needed. Various special effects — such as exposures and rotations — can be applied to objects. These effects are preset, but impulses will update registered screens with more as they come along. The supplied list will keep all but the most demanding many (Hanshausen) happy for a great few animations.

An extra element called Objects is included in the Action editor, and from here the colour, look and feel of your screens can be created. It global rendering the will provide instant detail to your image. For example, in these pictures I have made use of Brent Casabian's excellent Scenery program to provide sky, land and sea. The same background,



or another if you so wish, can be used to provide reflections in certain objects. If your picture is set in an evening setting, you might like to make use of an automatic sky generation feature, or simply make the sky blue and the grass green. The ability to generate global brushes opens up the world of background animation — remember the car sequences in films where actors pretend to be driving with a fake roadway behind them?

Finally, you will reach the Project menu where you can select the resolution of your finished picture and also provide a sensible means of storing and organising your objects.

ANIMATION

Unfortunately, one of Imagine's best features cannot be shown here — the animation facilities. It's only when you spend a day creating a static picture of a cow that you realise that it's somewhat which makes the difference between actually pro-

A570



It was here, then it wasn't and now, at long last, it is. But what exactly is the A570 CD-ROM drive, and is it any good? Nick Veitch accesses the data...

DELIVER UNTO US...

They said it would be here by the summer. They were wrong, but at least they had the decency to hurry things up for an August delivery. Yes, the CD-ROM drive is finally among us - but is it any different from the machine we previewed at three months ago?

Not really, but a few things have been cleared up. Yes, the port at the back will accept ISO hard drives. The ISO standard is supported on a number of M68000 platforms so there is no fear of supply drying up. It should also mean that drive units will be more competitively priced. The price unit is still the old ugly but reliable 'brick' style.



COMPATIBILITY

Yes... that, it should be compatible (when working in CDTV mode) with all CDTV software. It should be, but remember that the CDTV doesn't come with a keyboard or a mouse. Remember also that the A570 unit doesn't come with a remote-control unit. To get around this the units were designed to have roughly compatible controls. In the same way that holding down the Alt and the right Amiga key on the keyboard is the same as pressing the right mousebutton, the control pad of the CDTV should be emulated by the mouse buttons and the cursor controls. This bundle of compliance lies with the developers, though. In practice, the Operating System sees to most of this compatibility but there can still be some problems. While using *Star-Clay*, for example, neither the keyboard nor the mouse seems to behave as expected. Perhaps Commodore could have included a controller and infra red transmitter with the pack.

AND THERE'S MORE

The advantage of having an A570 over a standard CDTV is that you will be able to access CD-ROMs in Amiga mode as well as in CDTV mode. The CD-ROM drive recognizes all CDs which conform to the ISO9660 standard, and these include many of



CD UPDATE

There are now a growing number of CDTV titles around, with more appearing at regular intervals. The latest releases reflect the amount of data capable of being stored on this format. *Trivial Pursuit* from Demarc (reviewed on page 78) comes on two disks and comprises over two thousand questions, including picture and music questions which are not possible within the framework of the original boardgame. Few developers have yet exploited the CDDI format, which allows quarter frame animation from CD. So few in fact that Commodore have started producing at least one such title themselves - an American Football simulator complete with animated actionmen, half-time interviews and coaching tips. We previewed *CDTV Sports Football* in our news pages last month, and we hope to bring you a full review very soon - as this sort of 70-style simulation and humorous presentation is ideally suited to the CD medium...

the disk full of script, fonts, or raw data intended for use with IBM PC or Macintosh CD-ROM systems. Obviously, you will not be able to examine any of the files you may find on these disks, but you can use the data files. Graphics can be easily converted over using Art Department, and even Adobe fonts can be converted using the utilities now bundled with PageStream and Professional Page. In effect, the CD-ROM now becomes like an extra large hard-disk floppy. (Disk is loaded into a special reader, which operates as optical controller) and put out in the form. This isn't quite as convenient as the slide-in-and-go CDTV players, but it makes more sense, reducing the possibility of errors and damage to your precious CDs. If there is a break or a scratch on a multi-CD, chances are you might not even notice it, but when it comes to binary data even the slightest error could screw up the whole application.

You can still use the A570 as a normal CD player, too. When booting up in CDTV mode simply insert the disc and the familiar CDTV control panel will pop up. Play the tracks normally, select

A 570



a sequence or choose the random play option. The CD side of things will also handle CD-RW and CD-i formats. CD-RW contains extra data which is read as the music is playing. The MP3 data can be used to control a keyboard attached to the Amiga via the serial port.

IMAGE HANDLING

CD-i is a format which includes download or still frame-graphics alongside the music data. These images can be handled quite adequately by the Amiga display and, in fact, the A570 is one of the very few systems (along with the CDTV) which are capable of displaying these graphics. In Amiga mode you can still use the A570 as a CD player via a small utility supplied. Although Commodore claim that the CDTV will be able to use Kodak PhotoCD discs (where you have your film developed onto CD instead of normal prints), there is no evidence at this time that the A570 will be able to handle this format. The same goes for the Electronic Book format discs, which are roughly similar to the old style CD singles and are much smaller, handling only around 200kbs of data.

CONCLUSION

As a CD player, I think I'd rather have a stand alone unit. Your Amiga is going to look a bit conspicuous in a big stack of flat black and chrome amps and tape decks. Still, it's nice to have the option. The A570 is actually a CD-ROM drive and a multimedia engine in one, so you have

The Competition

The CDTV is not the only home multimedia system available. Philips have a rival system, the CD-i and iCD Interactive which you may have seen advertised in various magazines and on huge 16-sheet hoardings. The CD-i standard is set so other consumer electronics manufacturers will soon join in, giving a choice of units from JVC, Sony and the like. Initially, these units will be fairly expensive because they are not based around a computer, but around dedicated hardware. The software likely to be produced promises in time to incorporate full-frame animation at a decent speed, but at the moment this would require some additional hardware like the MPEG compression chip, bumping up the price even more. Although launched after the CDTV, tales are being released for CD-i at a faster rate and more developers are sure to join the fray on the side of CD-i because it will probably have a much greater marketing budget. Also edging into the arena is the Sony Data Discman and look-alikes. These units work on a smaller disc (the 3" ones which used to be used for audio CD singles) and are designed to be used as travelling notebooks. Time Out magazine has already released a number of City guides in the Electronic Book format. Although the discs have only about 200Mb capacity this is easily enough for games, reference works and language translators.

to look at its cost relative to these systems.

The A570 is considerably more flexible than the CDTV, and in some ways a much more viable unit. This is only the first step on the path to make all Amigaes CD-compatible. Admittedly, you can get SCSI CD-drives for your Amiga already but they can't operate in CDTV mode. This is the perfect – and relatively affordable – entry to the CD market simply because it links to your Amiga makes it a worthwhile buy, as post CDTV owners have been alerted by several controller-based compatibility problems, and although the mouse doesn't exactly perform perfectly, it is a slightly more fluid control system. In addition, as the machine is aimed at the 'lower end' of the market, it means that more large software companies will start to produce CDs for it – at last. The only query about such an incident is why do it take so long and why do Commodore produce it after the stand alone CDTV instead of before? ¹⁰



A 570

...multimedia player

A CDTV compatible, it handles 16-bit colour even via a 16-bit video adaptor. It easily reads a Audio through for things would it work as a CDTV player, it takes care of...

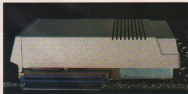
Commodore Business Machines (UK) Ltd., The Brighthelm, Gower Road, Brentwood, Essex SS16 5JL. Or give them a call on 0800 1 0000

COMMODORE 4300

Better late than never – and a real entry to the world of CD...

BASE OF USE	88%
VALUE FOR MONEY	70%
EFFECTIVENESS	94%
PERFORM	93%
INNOVATION	90%

OVERALL 87%



Starting early into the new year with the A570 looks perfect when you're your machine. In addition, installation software is extremely easy to install, ensuring that any unnecessary issues are kept to a bare minimum.



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Adobe Illus and Illustrator 8.5. You can't see the grid, but you get the gist of the idea.

Left: Adobe Illustrator 8.5. You can't see the grid, but you get the gist of the idea.

professional

Not all art packages are the same. Nick Veitch draws on his experience

AN ART APART

A structured art package is a necessity for anyone taking design or desktop publishing seriously. You can't always rely on being able to get a picture of something and even if you could, illustrations can often be a lot clearer and easier to understand. A custom point package may be sought for the lowest quality of illustrations but simply who cares about their output is going to go structured.

On the desktop they have Illustrator, on the PC the Corel Draw, on the Amiga it can only be Professional Draw, in fact, there is only one chain longer to Professional Draw - Design Works from West Horizons, which is designed primarily to be easy to use and looks any real power. This lack of competition is worrying - where is the incentive to making the product better?

YOU CAN DO MAGIC

First, on looking up there doesn't seem to be much difference between Professional Draw and ProDraw. The screen looks pretty much the same - an 800x600 desktop - apart from one significant addition. There's a little lamp next to the selection box. It's a magic lamp, because it means that ProDraw now supports Gamma, the slightly customised version of Adobe already adopted in Professional Page. The gamma can control every aspect of ProDraw.

Automating any repetitive function, performing any tedious replication. There are an awful lot of these already defined, many of which are very useful indeed. A lot of them mimic the functions on page again such as illustration, including step and repeat, or moving an object to a given layer, but there are several unique macros, including some 'Special Effects' which seem to have been constructed over a long weekend with the benefit of some Photoshop. (mailto:nic@compuserve.com)

Unfortunately, you need to have Adobe before you can use these macros. It is also a great advantage to understand Adobe if you want to write your own macros. A simple text editor has been incorporated to help you make your own macros, but it's a shame that there is no recording function. A large number of macros which people may want to perform are just a simple sequence of major three operations and surely it couldn't be that difficult to record the mouse movement and menu selections.

LINING UP

The most basic element of any artwork in ProDraw is the line. It may not necessarily be straight, though, and it can be given velocity at one point, turning it into a bezier curve. By holding down the left mouse button whilst making a point, you can stretch out a line indicating a 'velocity' or the tendency for the line to go in that direction. Having released the button you can now specify the second point at the other end of the line. You have just drawn a curve between two points, which will annoy any maths teachers you come across. It sounds a little difficult, but it becomes second nature very quickly. The excellent thing is that you can come back and edit all the points later. If you were drawing a nose, for example, and decided to make it a little more pronounced, it would just be a matter of moving a few points (perhaps having to re-define a fitting drawing in HAM mode).

If this gets a bit too tedious for you, there is always the freehand mode. This is excellent when used in conjunction with a graphics tablet. You draw a line or a curve with the mouse and when you let go of the button the program draws points and approximates curves to follow your path. It can

be a bit hit and miss, especially with the angled but whenever that all the points can be edited later. You can even join points onto lines, take them apart or break a link between two points.

There are plenty of tools for manipulating your objects, too. Moving, stretching, rotating, group, ungroup, etc. - it's all there. Perhaps the most invaluable of the additions from ProPage 2.0 is an 'undo' option. Simply press a button and the last action will be undone, instead of your artwork.

TEXT HANDLING

One of the most useful aspects of ProDraw is its ability to take a CorelDraw font and turn it into a better curve substituted clip which can then be edited. All object manipulations can be performed on the text and it can even be filled or outlined to create curves of special headlines for ProPage. Using the new built-in features, you can send the clip directly to ProPage. You can even wrap text around objects using a special fit to curve option. ProDraw now supports the same type of CG text as ProPage which means on and is the duplication of hundreds of text files at once your desktop, not to mention all the time it took to create them. ProDraw 2.0 comes with the same font manager utility that was bundled with ProPage 2.0, enabling you to store on the properties of Public Domain Adobe Type 1 fonts.

THE NEED FOR SPEED

The trouble with complex applications like this is that they tend to be incredibly slow. Well, ProDraw has come a long way since its original version in terms of speed. In fact, there is nothing more annoying than trying to get on with your work and having to stop for about 10 seconds every time something is added to the screen. To get around

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1. The closing date is the 30th September, 1992.
2. The competition is not open to employees of Amag Images, Addison-Wesley, or people who don't like motorbikes.
3. No correspondence will be entered into.
4. No proof of purchase is necessary.
5. The Editor's decision is final.

If you can't wait for the results of our competition, or you want to find out more about the extensive range of books published by Addison-Wesley, please write to them at: Addison-Wesley Publishers Ltd, Pinchamstead Road, Wokingham, Berkshire RG40 3NE, or telephone 0734 780000.



QUESTIONS

1. Who invented the programming language 'C'?

- A. Flannaghan and Allen
- B. Kernighan and Ritchie
- C. Mark and Mindy
- D. Anthony and Gasparito

2. Much is said about the Amiga and its DMA channels, but what does DMA actually stand for?

- A. Discrete-time Multiphase Adapter
- B. Don't Mind Again
- C. Direct Memory Access
- D. Distant Memory Access

3. The person regarded as being the father of modern computing is:

- A. Sir Charles Babbage
- B. Sir Charles Babbage
- C. Sir Charles Babbage
- D. Steve Merrill

And finally, just in case too many of you found the above questions too easy, here's the amazing tiebreaker. Complete in less than 2000 words the following sentence: "Send these books straight off to me because..."

ANSWERS

1. _____
2. _____
3. _____

TIEBREAKER

Please send entries to: CU Amiga, Priory Court, 20-22 Farnington Lane, London, EC1R 3AU. 129

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Adorning our July coverdisk was Teijo Kinnunen's highly-acclaimed **Octamed Professional**, a superb music package and a major step forward in Amiga sequencing technology. In fact, it's probably the only music package you're ever likely to need! If you missed it, now's your chance to get a copy.

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Of course, if you bought our July issue, you're probably already reveling in the program's capabilities and already creating mind-blowing music. If you managed to miss your copy of the July issue, though, here's your chance to make amends. For a mere £6, the mysteries of **Octamed** can be yours, as

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can a massive 100-page magazine and a second disk containing playable levels of **Electronic Arts' Blinky Woods** and **Granite's Zool**. The disk is also backed up with a comprehensive tutorial to get you started. And, over the coming months, we're going to be taking a closer look at the programs, offering extra samples and hints to help you get the most from your program. So, this really is an offer you can't refuse...

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PUBLIC DOMAIN PD SCENE

PD expert, Steve Keen, once again scours the hundreds of new PD disks in search of the wild, wacky, and fun. Here's what he found this month...

THE INVISIBLE WORLD 2

slideshow

Here's the second in an intriguing series of disks which provide a startling insight into the world of microscopic photography. The last part, actually magnifying the subjects, was obviously done by

someone else unless the ones have got access to a £15,000 electron microscope. The latter part was probably also responsible for the pictures taken from the back of the same man, however, the beauty of so pictures enable you to see some incredible features on everyday objects and organisms that you'll never have noticed. Try this which feed on moisture and live at the roots of your eye lashes or the tip of a ball point pen. All the pictures are accompanied by fascinating captions and for anyone who's fed up of the usual pop star and cartoon slide shows this is a welcome relief.

Disk no. Invisible World (Plus compatible) Available from: Digital Images, 10 Moulton Park, London Bridge, West Yorkshire, England NG7 6LN Price: £1.50 (excluding VAT) for disk 884810

81%

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ANDROMEDA

demo

Quite a weird little program this, consisting of a series of rather short demo routines running around the Andiga series. The program adjusts the size of the screen to fit the requirements of the



demo currently running along, enhanced by vector objects. The effect is somewhat spoiled by the unnecessary greetings which are superimposed across the screen and obscure the demos, though. Just when you think all is lost and it's going to fall apart the screen suddenly goes to reveal an excellent rendition of 3D vector machinery, featuring a series of cogs and belts that scroll across the screen reflecting light and shadow all over creation. Not bad, but far from brilliant and certainly nothing original.

Disk no. 881 (Plus compatible) Available from: Pinter Ltd, PO Box 1, East Sussex, UK, Sussex, EN1 8JL

79%



NOVA AND DOG

games

Two games of exactly the same theme and difficulty. There appears to be just one level per game, but they're guaranteed to take you ages to solve. The idea is to cover a series of dots on one side of the screen with blocks that are pushed around with a cursor. The cursor can only

move one block at a time and some real thought is needed before you can get a path as one moves and you'll never be able to complete the whole game. And in the bigger and therefore the harder of the two, but then, again you haven't been able to complete either of them. The programmer would like you to write to him in the States and tell him exactly how long it took. My suspicion is that the only correspondence for a long time to come will be Christmas cards.

Disk no. 880 (Plus compatible) Available from: 114, St. Michael's, 24 Market Lane, Staines, TW20 1BN Price: £1.50 (excluding VAT) for disk 8800

70%



HELLRAISER 1 & 2



slideshow

In the light of our 'Points Of View' article last month, readers Andy Stronach and Andy Gibbons's latest disk could soon be very illegal indeed. Again there is distinguished reputation for quality slideshows and these pictures taken from the Hellraiser films are a lot clearer than the video ones we featured last month. None are particularly gory, but there's a fair cross-section of bits of the starring Cenobites and other blood-soaked mannequins to keep fans amused.

Disk no. Hellraiser 1 & 2 (Plus compatible) Available from: Century PD, 24

Bedfordshire Avenue, Chesham, Bucks HP8 3JH Price: £1.50 (excluding VAT)

72%





ALCATRAZ MUSEUM

slideshow

This Alcatraz slideshow consists of twenty stunning hand-drawn colour pictures which, at the very least, will have you



proceeding for years overseas and a range of *Alcatraz* to see if you can do better. There's no particular theme, but some are a bit weird to say the least. Particularly good are the renderings of the boat from the fantasy film *Legend* and the cartoon styled pictures.

Look for 1000 (Plus computer) (or) available from: 17th St, 1st Floor Offices, 24 Market Street, Whitehall, W1 1AA Price: £1.50 (including P&P) Tel: 0624 304995

15p

SANITY

artwork

If you're into PG in a big way you'll know that full-time professional demo covers like nothing better than inorganic parties. Far from being lame affairs, these gatherings bring together hundreds of like-minded people to hold discussions on future projects, show their latest works, demonstrate techniques, hold competitions and listen to music/demos. One of the most popular aspects of these highly organised affairs is the graphics competitions and here, in this disc, we have the ten best that were entered at the Creative Discipline Party '90. Every picture is an original hand-drawn affair and, although the disk gives no indication as to who won, it's just wasn't the judge as most are fabulous. See how the experts do it.

Look for 1000 (Plus computer) available from: 17th St, 1st Floor Offices, 24 Market Street, Whitehall, W1 1AA Price: £1.50 (including P&P) Tel: 0624 304995



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BALDY

Definitely one of the saddest games I've ever played other than PG pages. This platform game provides as much addictive appeal as a packet of instant noodle (a favoured staple fare to a grade-schooler). You control an aging, geriatric on his travels about a single screen-looking from platform to platform dodging enemies and collecting computer disks. The hairless ones opposition opponents virtually the same throughout most of the levels and the abysmal rudimentary graphics are appalling. Just to seal the game's fate the old timer's control system is extremely temperamental much to the game's and your character's loss. He shies as much as a feline grows as Officer Road working out in a Jack Daniels' factory. Invest in controlling him or lose your money. Look for 1000 (Plus computer) available from: 17th St, 1st Floor Offices, 24 Market Street, Whitehall, W1 1AA Price: £1.50 (including P&P) Tel: 0624 304995

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CRY FOR DAWN

slideshow

Cry For Dawn is a rather obscure American horror magazine. From what I can gather from the pictures included on this disc, the magazine tries to target the sinister side of the contemporary scene.

Certainly amongst this collection of disgusting hand-drawn pencil images the main theme tends to be sexually violent women with a taste for the extreme. Still, when it boils down to it, the pictures are repulsive and whatever your views on adult content and fantasy erotica it's hard not to admire the artistic imagination and skill. I'm a fan of nearly all styles of fantasy artwork, and there's no mistaking this slideshow for it. In the game, look for 1000 (Plus computer) available from: 17th St, 1st Floor Offices, 24 Market Street, Whitehall, W1 1AA Price: £1.50 (including P&P) Tel: 0624 304995

15p



FRANK

SIDEBOTTOM'S FANTASTIC SHED SHOW

slideshow

In case you haven't heard of Frank Sidebottom he's an alternative comic who gets by on a little bit of wit and wearing a massive paper maché head. He's quite famous amongst trendy student types and Working Men's Clubs. But now, with a PG computer slideshow all to himself he's really hit the big time. There's not a lot of famous type found on the disk, unless you may find death from viewing Frank's head from different camera angles - very boring stuff. If anything was guaranteed to make you want to take in your monitor in despair then, captions such as 'Frank about to sing wild thing' and 'Frank singing wild thing' are just the ones to do it. Tell him off.

Look for 1000 (Plus computer) available from: 17th St, 1st Floor Offices, 24 Market Street, Whitehall, W1 1AA Price: £1.50 (including P&P) Tel: 0624 304995

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PLAY'n'BAVE V1.0

Play'n'Have is a great music utility that allows you to link Modules together without gaps between loading. Demo runner Included. 3 Disks in total.

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AMOS UPDATE 1.34

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INTERVIEW V1.2

Interview is the latest version of Interview, it's been totally updated and is now really the best Test Interview/WFF around.

BE-ORG

BeOrg is a powerful file save disk copier, that will reformat your disks so that it can load & save faster.

SCOPY V2.0

Very Powerful disk copier.

Includes options like DEEP SCAN, MIRROR, Includes full documentation.

PE TASK V1.04

PE Task is a great new PC emulator, allows you to run IBM PC, Compatible software.

SURFACE PLOT

Surface Plot is a great new utility that renders fantastic looking objects, such as spheres, bolts etc.

RAY SHADE V4.0

As the name suggests this is a ray-tracing package, but of the highest standard, the program requires knowledge of CUI to run, but the results are amazing. 3 Disks.

PD GAMES

CARD SHARP

The best of all this entertaining collection of named Card games, all will have you stuck to the screen for hours.

E-TYPE

Remember the classic game Asteroids? Well here is a real re-visit to the Amiga, the game contains some really smooth Graphics & excellent sound FX.

SUPER PACMAN V2

Here's a new re-visit of an old Atari arcade classic, obviously much better than the old version. A game not to be missed!

NEBULA

Nebula is a very fast 3D Shoot'em up. You take control of your X8-22 fighter in your quest to save the world.

BUSH HOUR

Is an excellent "runner" game, but with some brilliantly funny calling sequences.

SHANGHAI

Here's the latest in a long line of "Clones", but the best an addictive puzzle game.

WAS

Fantastic strategy game from the author of "Buckaroo". Very playable game, it's an exceptional one!

MAGNATRON

Put your wits against the forces of gravity, in the excellent Arcade counterpart. One of the best PD games around and a definite collector's item.

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DARK THUNDER

One of the most platform games but on Amiga it's not what you could call easy, then get this!

DELIBERATION

Deliberation is a game with a lot of options between "Tactics" & "King And it's a great game.

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POWERMENU menu creator

Nothing sounds off a good compilation disk better than a nice menu. The trouble is the damned things take so long to create and, unless you can program, you're normally stuck with CLI-based menus. Many programmers have realized this and, as a consequence, there are now a number of menu-creation programs available, of which PowerMenu is one of the easiest to use, letting you create mouse-driven menus in real time.

The program itself runs from CLI, and can of course be incorporated into a startup sequence for auto-booting. Menus are created in standard text files using a word processor. These files are then converted into on-screen menus, complete with scrolling star fields and highlighted text. You can also alter both the text colors and the fonts used to display it via additional options whenever PowerMenu is activated.

Quite a handy little program, and an ideal way for novices to learn a little more about disk compiling.



Being created on-screen in real time, PowerMenu can be incorporated into menus.

Disk No: 0216.

From: Select PC, 79 South Road, Salford, South Glamorgan, South Wales, CF6 3SL.
Tel: 0352 549461.

Price: £1.49 inc P&P.

Compatibility: Any Amiga (the intro isn't 2.0 compatible, though).

Memory: 512k.

Mat Broomfield presents
an identification parade
of the meanest utilities to
hit PD town.

BENCHMASTER replacement workbench

Utility of
THE MONTH

Users have long realised that it's not the *be* of it and not all of user interfaces. There have been many attempts to improve the basic concept with programs such as Windowsbench and Masterbench among the better ones. Now, at long last, someone's finally come up with a version that seems to have everything.

Benchmaster loads on all Amigas and, whilst it's loading, you're given the opportunity to mount a PD drive. This means that one of your drives will be configured so that it can also read and write to PC disks. Once Benchmaster has loaded, a more or less normal Windowsbench screen appears, although it has been designed to have that Windowsbench look, even on non 2.0 Amigas.

A quick glance around the screen will reveal the SDI 1.0/1 has also been loaded, along with a program called Shortcut. At the bottom of the screen, a Shell window is also opened ready for use. Clipping at the top right-hand corner of the screen and you'll notice not one, but two, File Disk icons. The extra one is in fact a RAM disk, which works in the same way as a normal RAM disk, but its contents are not lost when you perform a soft reset.

Returning to Shortcut, its small menu bar completely takes the superb power of the program, for it is this alone of else, that makes Benchmaster so incredibly flexible and useful. When Shortcut is activated by clicking on its menu bar, four menus become available at the top of the screen. Between them, they give you access to all the most frequently-used Windowsbench and CLI options, and a lot more besides.

System is the first menu, and it lets you load SDI, Windowsbench, Benchmark and a number of other valuable programs. (Of course, for example, Auto-changes the mouse cursor, and activates automatic screen blanking to protect your TV or monitor screen from overheat burns. The File menu contains options to load as ASCII files, as well as TIFF pictures and Amiga. It even contains a Benchmaster-compatible module player.

Options such as Install, Format and Copy, are contained in the Disk menu, which also contains a disk utility, and gives you a further opportunity to mount PC compatible drives. The final menu contains the utilities that almost everyone uses. You'll find Find disk, FreeSpace, Word Checker and Multi-Player (for typing/text graphics and music data from games and demos).

Although the disk takes even longer than the



The ever-ready Benchmaster lets you read and write on PC disks from the Workbench.



Mounted in the heart of Benchmaster, its menus are packed with the programs that any serious Amiga owner should own.

usual Windowsbench to this, it will worth the wait, and it's certainly the ultimate Windowsbench replacement program.

Disk No: U191.

From: HDS, 1 Chain Lane, Newport, Isle of Wight, PO26 5QA.

Tel: 0483 529584. Price: £1.75 inc P&P.

Compatibility: Any Amiga.

Memory: 512k.



DISK PRICES	
3 1/2" DISK	\$1.99
5 1/4" DISK	\$2.99
5 1/4" DISK II	\$1.99
5 1/4" DISK III	\$1.99
5 1/4" DISK IV	\$1.99
5 1/4" DISK V	\$1.99
5 1/4" DISK VI	\$1.99
5 1/4" DISK VII	\$1.99
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5 1/4" DISK IX	\$1.99
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5 1/4" DISK XI	\$1.99
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5 1/4" DISK XIV	\$1.99
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5 1/4" DISK XIX	\$1.99
5 1/4" DISK XX	\$1.99
5 1/4" DISK XXI	\$1.99
5 1/4" DISK XXII	\$1.99
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5 1/4" DISK XXIV	\$1.99
5 1/4" DISK XXV	\$1.99
5 1/4" DISK XXVI	\$1.99
5 1/4" DISK XXVII	\$1.99
5 1/4" DISK XXVIII	\$1.99
5 1/4" DISK XXIX	\$1.99
5 1/4" DISK XXX	\$1.99



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17-BIT SOFTWARE - TEL. 0924 366982

QUALITY SOFTWARE



MUSIC DISKS

10000	10001	10002	10003	10004	10005	10006	10007	10008	10009	10010	10011	10012	10013	10014	10015	10016	10017	10018	10019	10020	10021	10022	10023	10024	10025	10026	10027	10028	10029	10030	10031	10032	10033	10034	10035	10036	10037	10038	10039	10040	10041	10042	10043	10044	10045	10046	10047	10048	10049	10050	10051	10052	10053	10054	10055	10056	10057	10058	10059	10060	10061	10062	10063	10064	10065	10066	10067	10068	10069	10070	10071	10072	10073	10074	10075	10076	10077	10078	10079	10080	10081	10082	10083	10084	10085	10086	10087	10088	10089	10090	10091	10092	10093	10094	10095	10096	10097	10098	10099	10100	10101	10102	10103	10104	10105	10106	10107	10108	10109	10110	10111	10112	10113	10114	10115	10116	10117	10118	10119	10120	10121	10122	10123	10124	10125	10126	10127	10128	10129	10130	10131	10132	10133	10134	10135	10136	10137	10138	10139	10140	10141	10142	10143	10144	10145	10146	10147	10148	10149	10150	10151	10152	10153	10154	10155	10156	10157	10158	10159	10160	10161	10162	10163	10164	10165	10166	10167	10168	10169	10170	10171	10172	10173	10174	10175	10176	10177	10178	10179	10180	10181	10182	10183	10184	10185	10186	10187	10188	10189	10190	10191	10192	10193	10194	10195	10196	10197	10198	10199	10200	10201	10202	10203	10204	10205	10206	10207	10208	10209	10210	10211	10212	10213	10214	10215	10216	10217	10218	10219	10220	10221	10222	10223	10224	10225	10226	10227	10228	10229	10230	10231	10232	10233	10234	10235	10236	10237	10238	10239	10240	10241	10242	10243	10244	10245	10246	10247	10248	10249	10250	10251	10252	10253	10254	10255	10256	10257	10258	10259	10260	10261	10262	10263	10264	10265	10266	10267	10268	10269	10270	10271	10272	10273	10274	10275	10276	10277	10278	10279	10280	10281	10282	10283	10284	10285	10286	10287	10288	10289	10290	10291	10292	10293	10294	10295	10296	10297	10298	10299	10300	10301	10302	10303	10304	10305	10306	10307	10308	10309	10310	10311	10312	10313	10314	10315	10316	10317	10318	10319	10320	10321	10322	10323	10324	10325	10326	10327	10328	10329	10330	10331	10332	10333	10334	10335	10336	10337	10338	10339	10340	10341	10342	10343	10344	10345	10346	10347	10348	10349	10350	10351	10352	10353	10354	10355	10356	10357	10358	10359	10360	10361	10362	10363	10364	10365	10366	10367	10368	10369	10370	10371	10372	10373	10374	10375	10376	10377	10378	10379	10380	10381	10382	10383	10384	10385	10386	10387	10388	10389	10390	10391	10392	10393	10394	10395	10396	10397	10398	10399	10400	10401	10402	10403	10404	10405	10406	10407	10408	10409	10410	10411	10412	10413	10414	10415	10416	10417	10418	10419	10420	10421	10422	10423	10424	10425	10426	10427	10428	10429	10430	10431	10432	10433	10434	10435	10436	10437	10438	10439	10440	10441	10442	10443	10444	10445	10446	10447	10448	10449	10450	10451	10452	10453	10454	10455	10456	10457	10458	10459	10460	10461	10462	10463	10464	10465	10466	10467	10468	10469	10470	10471	10472	10473	10474	10475	10476	10477	10478	10479	10480	10481	10482	10483	10484	10485	10486	10487	10488	10489	10490	10491	10492	10493	10494	10495	10496	10497	10498	10499	10500	10501	10502	10503	10504	10505	10506	10507	10508	10509	10510	10511	10512	10513	10514	10515	10516	10517	10518	10519	10520	10521	10522	10523	10524	10525	10526	10527	10528	10529	10530	10531	10532	10533	10534	10535	10536	10537	10538	10539	10540	10541	10542	10543	10544	10545	10546	10547	10548	10549	10550	10551	10552	10553	10554	10555	10556	10557	10558	10559	10560	10561	10562	10563	10564	10565	10566	10567	10568	10569	10570	10571	10572	10573	10574	10575	10576	10577	10578	10579	10580	10581	10582	10583	10584	10585	10586	10587	10588	10589	10590	10591	10592	10593	10594	10595	10596	10597	10598	10599	10600	10601	10602	10603	10604	10605	10606	10607	10608	10609	10610	10611	10612	10613	10614	10615	10616	10617	10618	10619	10620	10621	10622	10623	10624	10625	10626	10627	10628	10629	10630	10631	10632	10633	10634	10635	10636	10637	10638	10639	10640	10641	10642	10643	10644	10645	10646	10647	10648	10649	10650	10651	10652	10653	10654	10655	10656	10657	10658	10659	10660	10661	10662	10663	10664	10665	10666	10667	10668	10669	10670	10671	10672	10673	10674	10675	10676	10677	10678	10679	10680	10681	10682	10683	10684	10685	10686	10687	10688	10689	10690	10691	10692	10693	10694	10695	10696	10697	10698	10699	10700	10701	10702	10703	10704	10705	10706	10707	10708	10709	10710	10711	10712	10713	10714	10715	10716	10717	10718	10719	10720	10721	10722	10723	10724	10725	10726	10727	10728	10729	10730	10731	10732	10733	10734	10735	10736	10737	10738	10739	10740	10741	10742	10743	10744	10745	10746	10747	10748	10749	10750	10751	10752	10753	10754	10755	10756	10757	10758	10759	10760	10761	10762	10763	10764	10765	10766	10767	10768	10769	10770	10771	10772	10773	10774	10775	10776	10777	10778	10779	10780	10781	10782	10783	10784	10785	10786	10787	10788	10789	10790	10791	10792	10793	10794	10795	10796	10797	10798	10799	10800	10801	10802	10803	10804	10805	10806	10807	10808	10809	10810	10811	10812	10813	10814	10815	10816	10817	10818	10819	10820	10821	10822	10823	10824	10825	10826	10827	10828	10829	10830	10831	10832	10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APRF 5.00 print formatter

by J. L. B.



APRF is easily adaptable to printing text. APRF is the more flexible in this regard than any other word-processor word processor.

If you do a lot of word processing or text printing, regardless of the software you use, there's bound to have been a time when your W/P package fell short of your requirements. Most word processors have nice justification abilities, but ask them to columnate your text and, metaphorically speaking, they lay on their backs waving their legs in the air! APRF attempts to remedy this problem by providing a variety of text printing options that don't come with your average package. This program runs on CUI or Workbench, and although it's extremely easy to use, the sheer quantity of options may seem a little overwhelming at first. To use it, simply type:

aprf <filename> (options)

Substituting the required option codes where I've written the word options. There are 20 different formatting commands, ranging from column width to margin settings and the number of lines per page. To make interesting stuff such as headers/footers, date insertion and multi-column

APRF handles also 8.5 inch or commercial 8 1/2, with no Windows.

formatting. The latter option lets you take an ordinary ASCII file and output it in up to 3000 columns. As seen in, say, a newspaper. In practice, the highest number you will need is that. And the nice to use higher figures suggested as that the program is practical for format of 100 column primary too.

APRF is also ASCII-compatible, so if you use it regularly for large scale formatting, much of the work can be automated for you. In addition, APRF could use the standard of the default printing program, and it's sure that it would be much easier to use if installed in this way. If you care about the way your text reaches the page, this could be just what you need, especially if your word processor isn't up to much.

Disk No: UT149.
From: Roberts Smith DTP, 100 Palladian Way, London, NW11 6AJ.
Tel: 001 493 1926.
Price: £1.30 inc P&P.
Compatibility: All Amigas.
Memory: 512K.

SLIDESHOW GENERATOR 3.1 demo maker

AMIGOS is an incredibly powerful and versatile language — however, at the down side, most programs written with it look rather too similar in appearance. The Slideshow-Generator is an exception, because not only is it extremely easy to use, it looks and feels every bit like a commercial product.

The idea of the program, is to let people with little or no programming knowledge, create their own picture slideshows, complete with music and flashy wipe effects. The program comes with instructions built in, but due to their ill-considered colour scheme (dark on black), they're rather a strain to read. Fortunately, I suspect the program is so easy to use, the instructions are very brief and you won't



be squinting at the screen for long.

The slides themselves are built up in a script, with file names and effects added as you go. For those of you who are programmephobic, don't worry, you don't actually have to type anything in — however, I doubt the script is built up automatically by clicking on various buttons to specify which options should be loaded and in which order they should be displayed. There are some different fade/slides effects that can be used on each screen, and these are chosen by clicking on one of the numbered buttons for the list of the appropriate menu window.

When you finish that the slideshows is set up correctly, you can click on the Test button to have a look at the results. Alternatively, you can test any Soundtracker-compatible modules so that there's some music to accompany your efforts. All modules are converted into the program's own format before being used, but as this is automatic, that's no problem. When you've had everything up to your satisfaction, the entire production can be saved to disk as an auto-booting slide show.

To be honest, as good as the program is, it tends to crash if you make the third slide mistake. This is a shame because it makes it very frustrating to use. However, weigh that against the program's simplicity, and perhaps it's not so bad.

Disk No: 1004.
From: 17 8th software, 1st Floor Offices, 2/8 Market Street, Wakefield, West Yorkshire, WF1 1DA.
Tel: 01924 366662.
Price: £1.50 inc P&P.
Compatibility: Any Amiga. Memory: Any machine, but 1MB needed if using music and hi-res screens.

LABEL MAKER 1.5 disk label maker

Whenever you look into your disk box, do you see dozens of disks each sporting barely legible, hand-written labels? If the answer is yes, and you have a printer, this program is definitely for you. Label Maker helps you to create smart disk labels, each containing multiple lines of text, and optional graphics. Unlike previous labelling programs,

though, it's both easy to use and gives excellent results that count as little less one of those working powder acts!

The program is controlled via a strip of gadgets running down the right-hand side of the screen, and although there seems to be quite a lot of them, they all fall into four categories: text, graphics, printing and defaults.

The text and graphics options simply let you add and position titles and illustrations on the disk label. There are a number of graphics provided, and in text mode, you can use any Amiga font at virtually any size. Having finished on a picture, or piece of text to include, the program tests your choice as a preview, which can be positioned anywhere on the label.

Label Maker is nicely suited towards printing on labels that come on continuous rolls and are trawled fed through your printer. And it will work with single sheets of sticky or plain paper as well. It lets you define the spacing between labels in thousands of an inch, and therefore ensures that the positioning of your text and graphics is totally precise. I must wholeheartedly recommend this program to anyone that doesn't see a Desktop Publishing package because it really takes the work out of creating nice labels.

Disk No: 0142.
From: Ground Zero PD, 4 Chandon Road, Redland, Bristol, BS6 6PS.
Tel: 0272 732878. Price: £1.40 inc P&P.
Compatibility: All Amigas.
Memory: 512K.



Label Maker is extremely straightforward, and even lets the user save their W/P graphics without having to use Amiga/Win.

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Articulo, Lurch, Granny, Hagley and Wednesday from the treacherous Billy Afford.



PAROSOL STARS RAINBOW ISLANDS 3)

Get ready for some finger-searing action as Bob and Bob blast their way onto your computer screen. Use the elements of fire, water and lightning to overcome wave upon wave of little nasties as you attempt to unlock the secret of Parosol Stars.



EPIC

From the team which brought you F29, Resolator now emerges Epic - a sci-fi

extraneous featuring spectacular graphics and stunning game-play. NB: 1 meg of Amiga memory required.

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Robocop 3 ☐ source code 620

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Fullname and address: Alan Watts International, Wandsworth House, Farnham Road, Market Harborough, Leicestershire LE15 9AB. Tel 0533 433 113.

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contents . . .

infotainment. If you're serious about your Amiga, there's no better place to look for the most up-to-date information about your machine.

148 HARD DRIVE BUYER'S GUIDE

The CU Amiga team have been hard at work to bring you the ultimate buyer's guide to one of the most important add-ons a computer user can purchase. If you're thinking of buying a hard drive then look no further.

154 INSIDE INFORMATION

Inside info gets a lick of paint as it's miraculously transformed into an industry scandal sheet. Yes, if you want to know about the low-down, dam-right scandalous dealings and doings of the computer biz, this is the only column worth reading.

156 COMMS

Daddy Dave Burns gets on the blower with his latest comms column. This month, the train with the modern goes global in his quest for the perfect networking system. If you want to know more about networking, look no further.

159 BACKCHAT

If you've got a gripe or simply want to get something off your chest, Backchat is your chance to let off some steam. Each month, we present a choice selection of letters from our many readers, guaranteed to stir up controversy in the Amiga world.

162 EDUCATION

With the support of Education Otherwise, you're no longer have to send your kids to school for an education. Mike Gerrard takes a look at one couple who took their son out of full-time education and now teach him at home, with a helping hand from the Amiga.

164 HELPLINE

The only tip page worth reading is relocated to the blues and is ultimately chocablic with all the latest hints and cheats to make your gaming days that much easier. Plus, there's the added bonus of Small Tips, where we feature a whole host of cheats to all the new full-price and budget releases.

166 QUESTIONS & ANSWERS

All your problems have an answer and Mat Greenfield is on hand to provide them. So, if you're stuck on which accelerator board to buy or don't know your SCSI socket from your serial interface, Mat's got the answer.

170 OCTAMED PRO

Once more, Mat Greenfield ventures forth into the world that is Octamed Pro to provide another excellent tutorial based around the latest release of this excellent music program. All part of our continued support for our stunning caverdicks.

174 MUSIC COLUMN

Tony Morgan is your guide as this month the musical maestro shows how to inject a bit of creativity into your sampling. It's all very well ripping off other people's bass lines, but transforming them into an original score takes time and a large amount of talent. Here's how it's done.

177 NEXT MONTH

If you want a completely unreliable guide to what to expect in next month's issue, then here's the place to look. If, on the other hand, you want some cast iron guarantees, may we humbly suggest you write a couple of suggestions on a scrap of paper, as you've probably got as much chance of getting it right as we ever do!

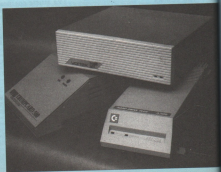
178 POINTS OF VIEW

Ahey, we hearted! With piracy as rife as ever - if not more so - and car boot dealers making thousands of pounds out of ripped-off software, Steve Koen assesses the chances of the commercial software houses beating the hackers. Is the computer industry doomed, or is it a problem that's been blown out of all proportion? Also, just how good are the industry over-seers, FAST and EUSPA, when it comes to cracking down on such pirates - and do they offer the companies supporting them good value for money?

hard drive round-up



Buying a hard drive is one of the most important decisions you're likely to make. Although they will speed up your efficiency, negate the need for irritating floppy usage, AND allow you to play a decent game of *Monkey Island II*, they do cost a lot, and making the wrong buying decision can be fatal. However, here to rescue you from wasting your cash, are CU's hardened team of hard drive users with their useful words of advice...





1 COMMODORE A590

A lot has been said about the A590, most of it bad. It's noisy, it's slow, it needs a big power supply and it doesn't have a through-port. What that's not quite true. The A590 on the shelves these days is actually an updated A590Plus. The difference is a redesigned interface giving better access times from the on-board XT drive. The fan still makes a noise, though. The SBC, it's true, does not have a through port. It is difficult to imagine what else would be plugged into the expansion port other than a hard drive or a RAM expansion, though. RAM expansions usually come with a through port so this shouldn't be a problem.

In the expandability stakes, the A590 does offer connectors for both SCSI and XT external drives. The SCSI port hangs neatly out the rear of the unit whereas there is an internal connector for any XT devices you may want across. Internally, there is also room for 2MB of RAM, which is enough for a decent system. If you want to expand more than that you are much better off with a third, some unit like the Cortex. The lack of a through port is basically down to expensive noise levels - it's a tough thing to implement an error-free data bus for a device with fast large motors in it. This left as few as many people seem to imagine - most people only want to attach a hard drive. Any hard drive should have its own power supply, but some of them seem to work quite happily without. The A590 will not be able to power up if an on-board (not A590) is run.

needed, which is quite sensible. Actually, you can leave power connected to the A590 continuously and it will only spring to life when you switch on the A590. The only real problem with it is its size - it fits in the same style shape case that the A590 power supply comes in. And with only a relatively tiny 20MB motherboard drive is a bit small.

Once you have installed all your workbench stuff - dPipes, PostPage, SBC and a third Processor - there isn't much room for a lot of actual work. Style-wise about all you can say for the A590 is that it's the right colour. It's wide and high, with only a very minimal slot on the front which makes it look a little incongruous.

The obvious advantage of the SBC is that this is a Commodore product and as you should (theoretically) not assume that it will be 100% compatible with any other Commodore approved peripherals, it is definitely the most reliable drive so far. The test model has never failed in two years, of heavy use.

Rating: 7/10
Size: 20MB
Price: £299

RAM: 1 or 2MB upgrade
Through port: No
Disable switch: No

SCSI Controller: 5 external SCSI drives
XT Controller: 2 internal/external XT drives
IDE controller: No
Supplier: Silice Systems (061) 309 1111



2 ICD TRUMPCARD

The TrumPCard for the A590 is now getting set in stone, although when first available it never really got the recognition it so rightly deserved. In direct competition with the ubiquitous A590, it was proved slightly better, but always provided that little bit more in the way of performance.

As far as I know, TrumPCard is still unique in the way in which it provides complete compatibility with the A590 as well as the A1500/1500+. Inside the rather unimposing present steel box, lies a little beastie - a A590 edge connector to an A2890 expansion/bug converter. For A590 owners the TrumPCard interface slots into the first adapter slot, it's removed from the back too, plugs directly into a Card slot on the bigger Amiga's motherboard. In this way it is ideal for A590 owners obtaining over the upgrade (Checkmate A590 owners will probably be able to convert a method for manual fitting) - for me it was acceptable to have the drive hanging off the side, supported with an abandoned mouse mat.

Against the A590, the TrumPCard always offered that little bit more. It supports SCSI (where the first A590's were XT), it can support up to 4MB of expansion Fast RAM (where the A590 has 2MB) and it comes with a 10MB XT 10MB Harddisk drive - 10MB more than the A590. Speed is certainly of the same order of magnitude, and is therefore perfectly acceptable. The TrumPCard's interface also manages to support mixed partitions, in that as well as Amiga SCSI partitions, PC and disc emulators may be provided with partitions of their own. Supplied software is more than adequate.

quite, with TOSfile providing all the setting up system that could ever be required. All hard disk utilities tested (Quarterback, Rat, Disk Mechanic) worked fine.

There are a few drawbacks though. Any further SCSI connections require a little CRY work - no converter is provided, get tapes on the internet and if you want to add any RAM you'll have to buy a rather expensive RAM board first. There are a few points of incompatibility, so with the Dataflyer unit. For example, the drive continuously fails if an SBC A5500 accelerator is used on the host computer. The unit comes without an external power supply, and although some Amigas don't seem to need one, a 12 and 5 volt supply is highly recommended. As for the unit's reliability, the test model is broken. After three years of double-byte everyday use, a brand with rubber gasket wheels and a nylon carpet shuffled over and gave it a severe case of radio-phobia. However with another interface card (for SBC - good value) the drive will probably run again for several more years.

Rating: 6/10
Size: 60MB
Price: £499

RAM: Option
Through port: No
Disable switch: No
SCSI Controller: No socket
XT Controller: No
IDE controller: No

Supplier: First Choice (0532) 637998

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hard drive round up



VORTEX SYSTEM 2000

You don't see too many of these drives around any more, and not without good reason. The initial savings was great: the drive and the interface came in two pieces. This meant that to start out, you could place the drive in a rack, connect it to your system and, if necessary, the interface could be cheaper. The actual interface cards were specific to an individual machine (Atari, Amiga, etc.) but the drive units were generic, making them easy to change. The downside was that you were stuck with the drive you had, even if you found that you could be better off with a different one. It was impossible to find the size of the drive. At roughly twice the size of an add-on unit, it also includes an integral power supply and fan blower (although models that can fit in a rack are very different). Finally, for the Amiga, you called a "Personality Module."

This was the problem started on the Amiga. Firstly, the interface did not adhere to the Commodore Autoconfig standard (initial) is generated control from the system and initiated itself. This was not good and it meant the drive was started completely transparently from the system (even on cheap ROM versions) but it also meant it was beyond scope of troubleshooting by any conventional device. If the interface went wrong, (unfortunately, this seemed to happen quite a lot), some units would lock up and refuse to even the most innocent conditions, while others only needed a slight shift to walk over the interface and they were on.

easy trip to pure land. Apparently that was because many of the units were made in this country under license, so, to cut costs and bring the price closer in line with the German version, many components in the interface were replaced with cheaper alternatives. The test model was fine once it had booted up, but getting it to boot up took about four minutes on average. Another model would boot up every time the disk was processed, continuously for ten long — the two components on the test floor.

In operation, the drive was fairly fast and quite reliable, though there were a few instances when it seemed there was a bit of incompatibility, trouble with other devices. The interface did have a usability throughput but the sticky feel on the bottom didn't last too long before they started coming unstuck. Later units were supposed to be far more reliable and now

...and the...
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Parting: 2000
 Size: 40MB
 Price: £200
 EMail: Quik@compuserve.com

Through port: Yes
Disable switch: No
ESCI Controller: No
ET Controller: No
IDE controller: No



GVP IMPACT

For nearly two years now, the SCSI Impact Series (hard) drive has been the benchmark against which other IDE drives are compared. It plugs directly into the expansion port at the side of the Amiga, and has a built-in SCSI interface, which can be re-configured, via the optional SCSI diskless card, to connect

without it, it won't. Originally available only in 40-180 FPS, the new 40-240 FPS version has a 100 FPS boost. Capabilities this large have been limited to the 50 FPS range. Every drive uses a constant drive mechanism, which is constant pressure for its lifespan and reliability. After a period of data transfer, the highest speed it gives the first little through buffer. The speed then drops to a constant rate of 40-180 FPS. The transfer rate of 40-180 FPS per second, but in real life, it's the 40-180 FPS per second. The 40-180 FPS per second is the 40-180 FPS per second. That still means that a full 180 FPS game can be loaded in only 100 FPS.

Another thing that nearly sets the largest array apart from other arrays, is its responsibility. It has internal space for up to **1024** of **8192** memory chips, which the **Amiga** treats as not real fast RAM. The only limitation is the fact that you must decide how much memory you're going to add before you start buying any. I mean that the second decision, on the other side only has space for four **8192**s, and there can only be one or four meg chips. If you're going to expand to **16**MB, you'll need four **1024** or **1024** **8192**s, whereas an **8192** expansion only needs one **1024** **8192** (**usually**). You can't mix and

available by calling 1-800-441-1111. For more information, call 1-800-441-1111.

As a universal standard on all recent Ford drives, here is a double switch. Many old (and even some new) games don't work well in hard-drive action on the expansion bus, and they are a lot of a pain to take off and put on again every time you want to play out. Turn it on.

The 1.6-litre power plant is a special mini-spec for adding additional integral peripherals, like a PC controller or an 1000 accelerator. (On a Rockstar 1.6-1000 Amigas, the GVPP will auto-load, but in case of any possible compatibility problems, it can be switched off so that the computer boots normally.)

The GVPP can be hooked to the front serial port, or the back for Amiga and not without good reason. I've kept my eyes open for any potential traps for this price, and although the Rockstar looks very promising, there's nothing else in touch it. The gap is sure to widen when the turbo version appears later.

Plant Image: 09-102
 Colours: 03-26986
 Molecular: 07-00007

RAM: Optional SDRAM
Through port: No
Disable switch: Yes
BOSI Controller: Yes
ET Controller: No
IDE controller: No

win a load of RUBBISH

Yes, that's right, you can win the entire contents of the CU offices - well, the useless stuff, anyway...

A SKIPFUL OF JUNK COULD BE YOURS!

We've run some good competitions in the past - with trips to the States or numerous Video Recorders on offer - but this one's really scraping the barrel (literally)! This is your chance to win all the junk that now inhabits the CU Amiga offices. That's right - pen a witty caption to the photo on this page, and all the rubbish that has accumulated in the office over the last couple of years could be yours. The reason for this madness? Well, we're getting rid of Steve 'Mary Menett' and Steve 'Queenie' Keen, so we thought the rest of

the dead wood should go, too!

But don't scoff! This truly great prize includes some absolute gems. Not only could you walk away with Steve Keen's collection of vanity mirrors and Nick Welch's handy supply of Doctor's notes, but there's some real bargains hidden beneath all the crap. For instance, tucked away in a dingy filing cabinet are more than 2,000 PD disks accumulated over the years, including all the games, demos and utilities we've featured in the mag - plus a lot more besides (sadly, Dan half-inched his prized collection

of King's Cross 'Business Cards' before we could include those as well).

There's also a clapped out C64 that nobody wants anymore, a vast collection of computer game magazines, roughly 100 boxed games, broken tea-cups, CU Amiga T-shirts and a very lot and sad Publisher who nobody likes (who must remain nameless for legal reasons). We'll also throw in an assortment of joysticks, mice, books, videos and whatever else isn't bolted down to the floor or already carted off to Steve Menett's flat.

So how can you get your hands on this skipful of rubbish? It's easy. Just write a witty caption to accompany the picture of our dashing Managing Editor, Steve James, printed on the entry coupon and send your answers to:

CAPTION COMPO,
CU Amiga,
EMAP Images,
20-32 Farringdon Lane,
Farringdon,
London,
EC1R 3AU.

The caption we think best, wins the lot - nope, there are no runners-up prizes at all! Closing date for entries: 30th November. The Editor's decision is final and he'll almost certainly ignore anyone who writes in to gripe. Hah!



My Caption is (no more than thirty words, please):

network

Following last issue's look at setting up a bulletin board, this month, Dave Burns lends us a hand as we try to get networking...

FIRST THINGS FIRST

First of all, you're probably wondering what networking is all about? When a user logs onto your board and leaves a message, any other user that logs on will be able to read it and reply to it. This is great, but what's more fun is to be able to have your message read on boards all over the world. And this is what we mean by the term networking.

How it works is that certain message areas called *channels* are linked via whatever network you decide to use to boards all over the world. Your users leave a message in these areas, and your board puts a local board and sends them all the new messages. At the same time you pick up all the new messages for the collection. These are all archived files, and when your system receives them, if you have set it up properly, it will update the old and toss it into

the correct mail boxes. What this means to your user is that a message they enter on Monday could be replied to by a user in America, Australia, or indeed anywhere — with the reply appearing on your board by Wednesday or Thursday.

ADVANTAGEOUS

There are many advantages to running a networked system, the main being the international contact. Your message boards will be full and varied even if you only have a few buffers a week, and you have instant access to a vast workable selection of files and discussion areas. It also helps you advertise your board, as each networked system has its own *Origin Line*. My own is as follows: *Origin: Wharfedale Burns 0-0834 077860-1000 - 0-0834 077860-1001*.

The last part is whatever you want to say about your system. It is

LINK ESTABLISHED

Interfacing with the technology that makes network possible we are now looking up to the international information networks.

Firstly, we have a local email center on the Internet 0800-000 0000 — through this net, you can read or message on any board that supports this type net, although we may not reply immediately, you will be kept in the loop. Your comments and messages are being read and stored so we will get back to you (remember that we will have a magazine's worth).

We can accept your technical queries, solutions and letters for publication via email. The other way you can contact us via your modem is by calling 0800 000 0000. We always have their own information there where you can post your trouble or your queries about the people that matter. This information is divided into several parts, including one which sets you down on this.

0800 is a toll-free number, so you do have to pay for the time you are connected. If you need to contact us the office of these systems you should email:

"David James [illegible]" on the 0800 000 0000 or the 0800 000 0000, immediately after the "0800" on the 0800 network, or alternatively call the 0800 000 0000, immediately after the "0800" on the 0800 network. We have to be contacted via our computer if other 0800 numbers of a local board. We have to be contacted via our computer if other 0800 numbers of a local board. We have to be contacted via our computer if other 0800 numbers of a local board.

See you online soon

0800

0800

Work your system

ADDITIONAL ADVICE

My thanks go to Andrew

Pick, Sympa of the Month! Things 885 who assisted with information. Andrew's board can be found on 0455 04151 at speeds up to 1600 KBT. Andrew has also made

a very generous offer to readers of CU Amiga. If you want any of the software mentioned, give his board a call and he will be more than pleased to make it available to you for downloading - or, as an excerpt of a disk and return postage, he will be quite happy to send it to you. If you are not sure that you are able to set it all up, once again Andrew will come to the rescue. Just leave him a message explaining the problems you are having and he will do his level best to help you.

You can also leave messages for this magazine in the CU Amiga area of his board. Should you want to contact me directly, give my board a ring on 0634 277323 from 10pm-6pm or contact me at P.O. 344090, Phoenix. We not use this number for voice calls.

advisable to put your number and operating hours here. The number in brackets is generated by your system, and identifies your system to the network. For example, the Number shown earlier is a P.O. box Number. Note being the original international network. The 3 is the zone (Europe), call is South East England, and 104 is my mode. This is all the information your system needs to send mail or messages to mine. Before going into how to set up a networking system, let's look at the types of host.

LOCAL

This is mail left on your system that will not be exported to the network. Only a few offers can see and reply to it - it is to log onto your board.

REM

This mail is 'forward' throughout the network system. There are rules which apply to this sort of mail. If you are in the Amiga area you must stick to topic. You are likely to get a letter asking all if you start talking about 27's or P.O.s here. Likewise, you would not be very tightly thought of if you want into the 27 area to inform those poor misguided souls that along with the best computer, you also subscribe to the world's best Amiga magazine.

NETMAIL

This is private mail. Mainly used between Sympa, if you wish to you can also make this available to you users. This is for private mail, and will only appear on the board it is intended for. Therefore, it is essential that you know not only the name of the person you are sending it to, but also the network Number of the board they use. Netmail can be sent in a variety of ways, so setting up this service for your users requires a lot of thought. Are you going to allow your users to CRASH mail (to send immediately and directly)? This will, of course, add to your phone bill.

Are you going to send the mail direct to are you going to route it through your hub? Direct means that it will arrive at the recipient immedi-

ately, at your expense. Routed means that a postage of at mail will be made and it will go to your local host for distribution.

Another item that you will become familiar with is Moderators. He is the man responsible for the rules, and therefore he will come down like a ton of bricks on anyone that disobeys the rules of the rules.

SETTING IT UP

Now that we know what Networking is, how do we set it all up? Well, this requires a little thought and time, but it worth it in the end. You need the addition of two more programs. There are a lot available, but I think that Andrew Pick of NeatMail Things has a great system, so we will look at the assorted features to be using.

TRAPDOOR

This is the main reason it sits at the front end of your system and waits for a call. The phone rings. Trapdoor answers and decides whether it is a human caller, it is mailing session. If the caller is human, Trapdoor will call the 885 software and rip off for a quick response while your caller is online. If, however, the call is from another system it will send you mail or files, it will receive the packets and place them into a specified directory until it is dealt with. Using Trapdoor you can also set up an on-line profile for the built in Comma software that will not only display any of the boards in the network, but also log you on!

Using Trapdoor you can also 'FIREQ' Files, Send files, and even send messages without actually logging on to the board concerned. What happens with FIREQing (File Release) is that Trapdoor will dial the board, and request the file. The maker at the other end will then automatically forward the requested file.

Once received Trapdoor will decompress and go back to waiting for a call. To use Trapdoor in its full extent you will need to spend time studying the documentation, and you will need to write a few Scripts to be everything together.

FOODLE

This is the 'gate' of the system. While the board takes the message, and Trapdoor sends them, Foodle is the program which scans all your Info Areas to find new messages, sorts them all up, and puts them where Trapdoor will find them. When mail is received by your system, Foodle comes back into play to update the received mail and 'Toss' it into the subject it is meant for.

The whole procedure is automated by the setting of 'filters'. For example, you can set an event to scan all the message bases, pick up new mail, dial protocol board, send and receive mail, then update the new stuff, before putting it in the correct place and returning to wait for a call.

Finally, it is your responsibility as Sympa to ensure that all messages and links that appear on your board are important decent. You cannot be held responsible for views expressed in messages that are on your board, but if you have abusive, obscene or other such messages on public display you can find up in trouble. Likewise, you are also directly responsible for the files which appear in your download areas. Therefore, I strongly advise that you have an area set aside for uploads so that you can check them before making them available to public consumption. You cannot have any commercial software as, if it does, delete it. This is not a good time to check that each upload is virus free and nothing evil.

NEXT MONTH

Next issue, we will look at a few 'Tools' you can add to your 885 system to round off this 'Setting Up' series. If you are running a system, or know of any good systems, please feel free to contact me as above, or drop me a line c/o CU Amiga. Your input is very important.

BACKCHAT

MUSIC MAESTRO

After reading your entertaining article on "Sound Advice" I found myself with some interesting remarks to make:

1. The cheap way of mixing sound (and composing samples, actually, say, brass and wind records) in today's terms "I made it your local 1-inch slot."
2. Instead of making beat tracks from various CDs, you could easily make them yourself. All you need to do is sample (at high quality) some drums and other instruments you might need. Make your own backing track, spread out all tracks in your sequencer (Protools or 486's). Keep it short — to roughly 18 sets per-sonal. Record this on tape and sample it back into your computer. And there you have it, and also backing track and 2 channels still remaining.

3. As I have performed live with the A500 and a Casio CMT-1 mixer that there is no real need for expensive equipment, just good quality samples and a good set of ears.

4. The musicians I and I speak for a few are not satisfied with the way things are going on the PD market these days. There is practically no room for original and/or progressive music to get published, but lots of space to give to what we call "water" software. Why does every-one still find it normal to sample complete pieces of copyrighted music? Isn't there a law against that a bit more?

Steve Raps, Belgium

WRESTLE FIX

I have recently been making a lot of negative comments about Ocean's WWF developments. I have especially brought troubling details from L&L's software, who advertise in your read mag. The game cost £18.95, but it's certainly worth the money as it's far superior to Ocean's other. Why not check it out...

Paul Davis, Jersey

A500 BLUES

I have just finished reading the cover feature in the June edition of *100 Amiga*. I am beginning to wonder if Commodore knew what they are doing. Their thing not the A500, just before the Christmas sale, probably knowing the A500 and A505 were on the production line, and then discovering the A505... like six months later but only after the A500... (using computer) performance, like the A500 was never intended to have the same trouble. As I said in A500s: some can't wait to see that the A505 for almost the same £2.8 (extra), so the games market for the A500s will not disappear over night.

Jim Davies, Scotland

A500 BLUES 2

Commodore have made their game well with the Amiga, but with a product like the Amiga it's quite hard to go wrong.

The A500s and A505 are obviously good machines but would be so much better if they had received the proper release and support they deserved. Leaving third-party developers and magazines such as yours to pick up the pieces and explain things to the bewildered public is unacceptable. The more (puzzles) to how what could have happened if the Amiga had fallen into the hands of a full computer computer manufacturer. Good luck, Commodore! What the hell are you playing at?

Stephen Sweet, Kent

It certainly looks like Commodore has opened a few people with the release of the A505 as soon after the A500s... who know what people's emotions will be when the A505 is released in the Spring of next year. As Commodore really loves the Amiga? Will be many problems, now their way that does more? I'm all for innovation and change, but with them now Amiga and a new version of the CDTV in development, it's certainly difficult to know exactly what machine is best called for what purpose.

GB ROUTE

Last time we saw the Amiga come out with something to limit difficulty I don't take me long but I found it a bit tedious to have to search out the "topside" the which you failed to mention an necessary. Please instructions in a script file would have been most welcome. And it's not easy to make it difficult but you chose not to mention that either.

The program looks OK. Despite to help good review I consider it rather good that a program can be distributed to version 1.02, distributed on a magazine cover, and still be seriously flawed.

To avoid just cut-out those both the latest and shortest (but not) Complete to Footprint. The summary of the fastest route shows the Total Time as 03:08, and 02:42 as shown in the Cumulative column. Total cost is shown as £11.08, it should at least be £11.60. It appears the program takes the shortest figures for Time and Cost when printing both charts, even if the shortest route that has been requested. The colored figures are shown on screen, so why aren't they printed?

I'm still looking for a place called "Berkhamstead" on my Ordnance survey maps. The closest I've found so far is "Berkhamstead". I wonder how many more bugs and spelling mistakes there are! Best time, thanks

Stephen, once again, for the GB Route code-up — we'll certainly give others instructions in future. As for the program then, I think it's brilliant. Absolutely. There are a few bugs, but then what pro-

gram hasn't? As for the only one of its kind on the Amiga, it's better than nothing.

SCORES ON THE BOOKS 1

I read your article Scores On The Books regarding the problems connected with the greatly increased "topping" or computer games, with considerable interest, but with a growing feeling that you were actually missing the point. It is, by way,

it seems to me that the evaluation of games by giving a mark out of 100 is a completely meaningless exercise — its only desirable purpose being to leave the critic frustrated by not expressing his feelings about that game or really that satisfyingly convey those feelings to the reader.

If one is scoring games out of 100, then the scores should have either an absolute or a relative value or possibly both. It is clear that the scores cannot be absolute values as that they are not actually the measure of anything. Perhaps, 80% is out of 100 worth? Then I mean that the game is, in its own way, 80% being a perfect game? If so, what on earth is a perfect game? It does not mean that their what does it mean?

The scoring is equally useless if we treat all marks as relative. Suppose, for example, that one game is scored 90% and another 80%. The difference is 10% small that by itself it is an inadequate guide to the relative merits of the two games, and the only way that the reader can properly separate the games themselves is to read the text of the articles for each game's respective point and feel pointed out. If the article says, for example, that it does not need 90% marks in the first place.

Scoring as comparison is no more helpful nor wide marking discrepancies. Take a game with a score of 90% and compare it with a game given out 40% in relative terms, one is twice as good as the other. That is surely not what the reader in such a case would be wanting to convey when the 90% game would presumably be outstanding and the 40% game very poor and would in no way be as good as the latter game. In fact, the 40% game might not be considered by the reviewer to be worthy of purchase at all.

The use of figures gives a quantitative or in a qualitative manner that is essentially one of opinion. Numbers and percentages are not used in everyday conversation to express relative values of things, precisely because they do it so badly. People do not say "I saw a 70% programme on television last night" because it conveys meaning to the listener. One of course might hear and expressions like "good", "bad", "terrible", "worse", etc., may appear less precise but the reader is able to get more about the feelings of the writer than presenting him with a number and more or less telling him to

make what he can out of it.

Books reviewers do not give marks out of 100 for a book. They tell you about the book, they discuss its merits and demerits and they then leave the rating process up to the reader. The games reviewer should do the same and, at the end of it, they are unable to express his views in literary form sufficiently elegantly not to need to give a mark to summarize it, be it like should not be a reviewer.

The great irony is that the reviewer is not responsible for the fact that up the qualities of a game in their articles very well and have no need of a scoring system which as often as not seems to bear no relation to the excellent article above it and reflects bias rather than adds to the overall quality of criticism. I'll finish, thanks.

SCORES ON THE BOOKS 2

I wrote in response to your Points of View column (10/1 July) that every great Public Domain library. One of the things I do each month is to walk through the PD sections of all the main Amiga magazines and add the review scores in my database so that I can give an accurate score for each program in my database. I know that when you read your column you had commercial software review in mind rather than PD but of course the price paid is the same.

As I have said, I personally get some error from the system of marking programs on percentage ratings or as marks out of ten, but I acknowledge that that it would be impossible to avoid. I instead of having a really where 5% is better than 90%, a much general indication using the kind of "good", "fair", "average", "substandard", etc., were given. However as it is one case for too subjective to make a precise marking meaningful, and as you point out yourself, what do you do when you're marked something highly and something else better come along? How do you feel a perfect ten in Olympic gymnastics?

If software continues to improve, and the way after that of human invention, it certainly should, then theoretically we must ultimately reach the point where 100% is awarded regularly. How will you then distinguish programs which surpass all others? True, you can just as easily not add to superlatives in verbal descriptions, but these descriptions do find their own level, so to speak, when standards change. In fact, I mean that something described as "superior ten years ago will not describe the same program twenty years later as a far superior product today. As standards change, so does the reader's interpretation of the description and consequently his expectations from the product.

The marking system does not allow this dynamic measurement of relative

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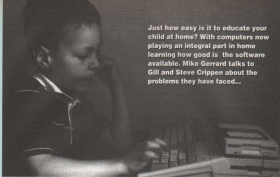
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Five-year-old Matthew Crippen sitting at his bridge. Matthew must take his eyes off your content to look at the words in, say, Program 1. Matthew prefers to look with Program 2 on.

Just how easy is it to educate your child at home? With computers now playing an integral part in home learning how good is the software available. Mike Gerrard talks to Gill and Steve Crippen about the problems they have faced...

school's

DOING IT YOURSELF

At a time of year when children dread the end of the school holidays as much as their parents look forward to it, there are many other families for whom school holidays simply don't exist. They are the ones who educate their children at home. He estimates that there are at least 10,000 children outside the school system. The number may easily be twice as high, swollen by those who escape the net of government regulation completely.

Many are members of Education Otherwise (see opposite box), a group which believes that parents have the right to educate their children in the way that they choose. The law agrees with them: education is compulsory, but school isn't. Gill Crippen, who lives in Harlow, Hampshire, met about this organization in a woman's magazine several years ago, and turned to EOC when she and her husband, Steve, withdrew their son from school due to the problems he was having. They now educate Matthew, 5, and his younger sister Sarah, 3, at home — with the help of their trusty Amiga, at home.

Matthew has been to school, Gill Crippen explains. In fact, he started when he was five. I was watching a TV programme once about MENCAP children. They were showing some incredibly clever children of seven, and I thought: hang

on, my Matthew can do that and he's only three! MENCAP sent forms for Matthew to complete, and, as a result, advised the Crippens to have him assessed by an Educational Psychologist. We went to Harley Street to see a woman called Margaret Pollock," Gill continues, "and she said that Matthew was the most gifted under-five she'd ever tested and that he had the IQ of a nine-year-old. Other advice said that he should go into a primary school as far as possible. We had a huge fight with the local authority to get him in, but eventually he was put in with the five and six-year-olds."

PULLED BACK

However, what should have been an exciting time for Matthew proved to be a disaster. Instead of being a help, his high IQ was a hindrance: he was so much brighter than the other children that the teachers began bullies, coming home with bruises. He was also bored with the work. "We used to come home from school disgusted at the simple things they had to do. He came home one day and said, 'We had to count backwards! He couldn't see the logic in it, he didn't see why you had to count backwards, why couldn't you count forwards?' He said,

EDUCATION OTHERWISE

Education Otherwise was established in 1977 and now has 2000 members across the world, though mostly in the UK. "There are many local groups," says Patricia Wilson, Area Co-Ord, "usually organized on a weekly or bi-weekly basis."

Membership costs £10.00 a year, which provides a bi-monthly newsletter, a list of members and all the support and information you might need. "The legal situation," Jane explains, "is that if your child isn't yet registered school, then you aren't obliged to register that you intend to educate them at home. If your child has attended school then you will inform the school and the Local Education Authority that you intend to withdraw them and educate them at home. They'll send an inspector round to see what arrangements you've made. The inspector will usually also make a year to see how the children are getting on, but they tend to be more concerned with the older children, and older means more authority and even taking in a planned education."

Education Otherwise is at 38, Kewest Road, Loughborough Spa, Leicestershire CV22 9TF. Its telephone please number is 0532-530023, and it has a special helpline for dealing with problems of school phobia: 0300 770007.

HELPLINE

HELPLINE IS SPONSORED BY MICROPROSE

Here are the best tips pages in town. If you're stuck on some mean mutha of a game, look no further as this is the place to come for help.

ENQUIRIES

BERMUDA PROJECT

Can anyone help me with this old game? I can get the hangboard and find the pass, plane, and village, but after that I'm completely stuck.

Andrew Nelson, Miami, FL

DEFENDER OF THE CROWN

I've never really been able to get very far with this. Can someone tell me how I can get my hands on some land? (Everytime I've finished taking someone (Pope Francisbridge, for instance) everyone else gets a share of the captured territory except me. I don't want a share, just an answer to tell me what I'm doing wrong.

David Nelson, Australia, NJ

WOODOO NIGHTMARE

I cannot reach the second temple. Can anyone explain (simply), how it's done.

Desperate Angel Games, NJ

RISE OF THE DRAGON

I'm in the sewers, under the strange machines. I've succeeded in forcing open a padlock and a jumble of wires were revealed. Everyone I see the city master on them, though, I get tried. Help.

Conrad Pinesch, Idaho, IN

KINGS QUEST V

I'm just at the beginning of the game and already stuck! I've got the pie from the bakery and the coal from the mine. (Everyone I enter the inn or the forest the "Game Over." What should I do next? Also, what should I use to lighten the mine that guards one of the paths? (Please help)

Conrad Pinesch, Idaho, NJ

MYTH

Can somebody help me? I can't get past Athena the Day on the Egyptian level and can't figure out how to get to the library of Tyre next.

Anthony Desiderio, NJ

THE IMMORTAL

I recently bought this budget game and I'm stuck at the end of level nine. I have killed the Queen King to get the combination, but it makes no sense. Could someone please tell me the combination? Please!

Anthony Desiderio, NJ

THE MANAGER

Please, please, please, can someone help me? Has anyone got a cheat or code to get loads of

money or to get into the First Division easily? Please help, as I'm starting to get extremely tired being with the game and it just may start taking flying lessons...
Daniel Smith, NJ

CAPTAIN PLANET

On level three (The Jungle) I'm finding it quite impossible to find my way around. Please could you help?

Stephen Hayles, NJ

SENSIBLE SOCCER

I'm really crap at this game. All my hands mark up the goals when they're playing against me. I've even chosen Brazil, but still I get a threatening, is there some kind of cheat so that I could win every time or nudge the opposition's goalie?

Mark Daulton, NJ

DUNE

It's easy to get lost, but once I've got space production underway, that's all I want to do. I've mined a mountain of the drug, but am still holding sway waiting for something exciting to happen. But, as yet, nothing. Surely there's more to the game?

Paul Waters, NJ

RISKY WOODS

Has anyone got a level skip or infinite lives cheat for this excellent slash 'n' burn up-platform game? I can only just manage to get to level three before the skeleton hordes consume me.

Pete Walker, NJ

COVERGIRL POKER

Has anyone got a cheat to make the prizes drop that fall at the press of a button? Details, details.

Mark Henry, NJ

JOHN BARNES

This game plays at a snail's pace. Is there a super-fast mode or am I just being incredibly stupid?

Mark Higgs, NJ

RESPONSES

LAST NINJA 3 Y2

There's no cheat, but here are all the level codes:

- Level 1 = B.U.S.
- Level 2 = M.S.U.
- Level 3 = G.P.T.
- Level 4 = B.A.S.
- Level 5 = R.O.U.S.
- Level 6 = R.E.R.O.

Steven Miller, Norway

CAR-VUP Y3

Enter your name as B.U.T.O.C.R.E. (no spaces) on the high score table for infinite lives. Alternatively, type in BUMPER for infinite bumpers, or PUZZY-CRIT for nine extra lives.

Type in GUILTY CAR during the game for an extra 1000 points, WOODWARD for faster turns and WACCOOSE to skip the level.

Adrian Johnson, York

RAINBOW ISLANDS Y4

Type in the following codes on the title screen for different effects:

- B.U.R.O.S.H. (permanent fast shoes)
- R.U.S.S.I.A.H. (permanent double barrows)
- S.H.I.L.L.U. (permanent fast turns)
- S.H.I.L.L.U. (permanent book of commands)
- H.A.L.L.U.C.I.N. (all hidden food becomes money bags)
- S.H.I.L.L.U. (increased counter rate)
- S.H.I.L.L.U. (fast turn)
- L.A.R.K.I.B.L.E. (second level)
- S.H.I.L.L.U. (slow increases down)
- S.H.I.L.L.U. (increases score counter to 100,000,000 points).

Ken Whaley, Washington, DC

FINAL FIGHT Y5

To make yourself invulnerable to hits and kicks, watch the film screen and the books side Mike Hopper to turn on the film. Then press the map key five times to activate this cheat.

Mark Drake, Michigan

AGENT Y6

While in play, type the following keys:

- F1 = Second appears under belt
- F2 = Second appears above belt
- F3 = Bullets become enlarged
- Press F3 three times for an extra life.

Derek Ho, Rochester

KICK OFF 2 Y10

For a successful free kick, keep your finger on the direction, push the joystick forward, let go of the direction and press it again to control the ball and turn the joystick any way you want to set it.

Darren Kent, Glasgow

MIDNIGHT RESISTANCE Y11

On the title screen, type in T.O.E. (T.O.E. = T.O.E. = T.O.E.) for infinite lives and energy.

Jonathan Peterson, Ill.

ADAMS FAMILY Y13

In the hallway, go to the bottom left and press up to reveal a hidden door. On the next screen,

directly above, is another hidden door to get those above and extra lives. On the continue screen, go left off the screen to get four more lives. Enter BUST as a password to go to the last level.
See Howland, West Yorkshire

JOHN MADDOEN FOOT-BALL X12

Here are the passwords for the later stages of the game.

05000000 — Quarter final
01000001 — Semi final
00000001 — Supertowel final

1 Page Three Help...

small tips

then fret no more. CU Amiga is here with all the cheats and tips you are ever likely to need...

CHROME

I must say I really liked your free Chrome game on one of your codebooks. After hours of play, here are the codes for each level.

Level 1 — Ean
Level 2 — Fuds
Level 3 — Jilly
Level 4 — Bery
Level 5 — Doad
Level 6 — Kibow
Level 7 — Kumen
Level 8 — Rax
Level 9 — Pigt
Level 10 — Lart
Level 11 — Gadd
Level 12 — Jomert
Level 13 — Agge
Level 14 — Jut
Level 15 — Jans
Level 16 — Jorid
Level 17 — Jader
Level 18 — Lyle
Level 19 — Tyle
Level 20 — Wret

Maths House, Farnley

AFRICA

If you're having trouble completing the latest levels on the tough shoot 'em up, here are the access codes to each stage. Type in the following words on the title screen and then press return.

2nd Stage: misanthrope
3rd Stage: dequidofone
4th Stage: heremidm
5th Stage: misanthrope
Final: showmids

SUPREMACY

Viper's complex space strategy game has few cheats, but if you're ever outwitted fast, launch a solar satellite on a planet which already has sufficient reserves of fuel and you'll be granted 50,000 tonnes of fuel too.

WWF WRESTLEMANIA

If you want to become the world's best wrestling champ, pause the game during a bout, type "WOLFGANGPARKER" or "YELLOWROSE" and then resume the game. The fight will now finish with you as the winner.

HOW TO USE HELP LINE

If busy, just send it your letter, marking your envelope with the appropriate code number if you are wanting a response or state if 'Emergency' if you need some help. Also, as there are stages at Help Line and the operators of our Help Line, expect those reply is posted with regular use of the Help Line board.
Remember's point: Post your letters to: 86,57000, 00
MAGA, PERRY COURT, 38-32 PARRINGTON LANE, 150000
(15-15-00)

PUSH OVER

Curry Club has got some standard puzzles to solve in this amazing Ocean game. Here are all 100 level codes.

Level	Code	Level	Code
1	00001	51	01001
2	01001	52	02001
3	01001	53	03001
4	00001	54	02001
5	00001	55	02001
6	00001	56	03001
7	00001	57	03001
8	00001	58	03001
9	00001	59	03001
10	01001	60	03001
11	01001	61	03001
12	01001	62	03001
13	01001	63	03001
14	01001	64	03001
15	01001	65	03001
16	01001	66	03001
17	01001	67	03001
18	01001	68	03001
19	01001	69	03001
20	01001	70	03001
21	01001	71	03001
22	01001	72	03001
23	01001	73	03001
24	01001	74	03001
25	01001	75	03001
26	01001	76	03001
27	01001	77	03001
28	01001	78	03001
29	01001	79	03001
30	01001	80	03001
31	01001	81	03001
32	01001	82	03001
33	01001	83	03001
34	01001	84	03001
35	01001	85	03001
36	01001	86	03001
37	01001	87	03001
38	01001	88	03001
39	01001	89	03001
40	01001	90	03001
41	01001	91	03001
42	01001	92	03001
43	01001	93	03001
44	01001	94	03001
45	01001	95	03001
46	01001	96	03001
47	01001	97	03001
48	01001	98	03001
49	01001	99	03001
50	01001	100	03001

If Apidya is bugging you or Hulk Hogan is still getting a kicking in Ocean's WWF,

BATTLE SQUADRON

This fairly heavy (but fairly short) shooter has two very simple cheats.

1. For immortality, type "GASTON" while playing. The screen will flash green to indicate the cheat is active and you'll start off with unlimited amounts of energy. Pressing F6/F10 will cycle through the weapons and F1/F11 will give different power-ups.

2. Name in BASIC mode, will enable you to continue the game to help with each stage. Pressing F1 to F4 will change the type of your cheat, while F7 to F10 will cycle through the available weapons.

MAGIC POCKETS

When you lose your last life, keep your finger on the fire button and the game will start again, but your score won't reset now. Keep doing this until your score reaches 100,000 at which point you'll become super-powered.

NIGHTSEED

Although fairly playable, we clearly really need a bullet on this rather basic shooter, but as it's on budget now, you may feel the need to extend its longevity with a simple cheat. If so, type "NIGHTSEED" for infinite lives.

POOLS OF RADIANCE

When an enemy is about to make his move, press Alt and X (or Alt and J), if message will stop up announcing "The Gods intervene and you'll win this fight. This can be repeated when necessary and will also work with most of 2001/2002 games.

PARASOL STARS

For all you fast and free devotees, here's a brilliant cheat mode for Ocean's latest platform romp. Type "CRACK" during the game to enter cheat mode, then type:

C — for extra credits
1 — to add a stage
2 — to life
3 — to all enemies
X — to skip to an extra level
B — to a bonus screen
F1-F10 — to skip a particular level
1-0 — to skip all enemies
1-0 — to skip a stage.

response to the letter received last week. As for RAM upgrades, I think that the SuperRAM is one of the best "professional" ones around, although certainly not the cheapest. It is fast because you can upgrade it to as much as 64M, and it doesn't invalidate your guarantee or require any complicated installation because it plugs into the expansion port at the side of your computer.

BUT KNIGHTER RETURNS

Regarding Lorna Palmer's inquiry about getting the game in the June issue, she may be interested to know that the UK contact for the 88 Potter's Karamini Theatre, Machine Knitting and Design Centre, High Cross, Aidenham, Herts, Tel 0800 800002.

A demo disk is available for £5 and new products will soon be available. Colin Yeates, Hammersmith, Cheshire.

WHY A1500?

After using a Diamond A500 with 256k and a second drive for two and a half years, I've decided to move on to bigger and better things. What are the advantages of the A1500 over the A500 apart from the extra expansion ports?

I'm looking at Diamond's "3000 Master" pack. Will the hard drives and other peripherals be more compatible with an A1500 than with a 500, because I've heard that there are compatibility problems on the latter? Also, is it true that a 3000s processor will double many games? If so, will Diamond supply the pack without the processor?

Finally, and on a totally unrelated point, what exactly does the Windows package consist of? S.Peggs, Oxford Producers, Bournemouth

I've asked many, many people about the A1500, and they all seem to agree that the expansion ports are its only main asset. Mind you, it's not an asset to be overlooked, as they open the door to whole new worlds of hardware peripherals, such as 16-bit samplers, graphics cards, internal hard drives, etc. What I'm not familiar with is the "3000 Master" pack. It sounds as if Diamond have put together a low-cost Amiga which has similar specifications to the A3000. Talking to a number of Amiga experts recently, I was advised that this is actually a much better, and more cost-effective way of building a high-powered Amiga, than simply buying a 3000.

Many games don't like the 25, 33 or 40MHz processors, but as far as I'm aware, all of these processors can be switched off so that the games will load and run normally. A 512k and A500s use entirely different hard drives and other peripherals, and the only 16M-compatibility problems I've ever heard of, other than people trying to assemble incompatible software, for example, word hard drives will work perfectly on an A500, but if you try to use a certain type with certain internal boards (co-processors and PO emulators), problems can arise.

On to your last question, the Windows contains a word processor, a spreadsheet and a database. The Platinum edition also contains a systems program for modern users.

DISK DRIVE LEAD

Can you please tell me when I can buy a replacement for my internal disk drive as mine is damaged? Also, how many bytes does one cylinder of a disk hold? Aaron Mowbray, Edmonton, London

I would suggest that you approach the manufacturer of your drive. If they

can't help, try Vista, who supply cables for just about everything. Their address is Unit 10, Bowman Trading Estate, Westonsland Road, London, NW9 9PS. Tel: 081 304 8880.

According to the documentation that comes with the Apple Macintosh's MacWrite Pro word processor, a disk is constructed as follows: 80 cylinders per side, two sides. A single cylinder on one side is called a track and it contains 11 sectors each of which is 512 bytes long. Therefore, a cylinder contains 11264 bytes (80x2x11x512=81920).

SAMSUNG SCART

There is a SCART socket at the back of my Samsung television, and I was wondering that, if I

plugged my computer into it, would I get the same quality as a monitor? I think lead as I need to buy? M.Alexander, Oxford, Windsor

No, you won't get the same quality as if you used a monitor, but you would notice a very significant improvement. TVs and monitors have different resolutions to exactly the same way as the Amiga does. Unlike the Amiga, though, they are not variable. The closest equivalent is Dot Pitch, and it describes how many colours or TV pixels are used to create a single inch or millimetre of screen image. The smaller the dot pitch, the better the image.

Because TVs are usually 24:9 in, they have 15.7 million colours available to them; they don't require such a high resolution to create a realistic impression. Add to this that all TV images are animated, so a single frame is never still long enough for your eye to detect its low resolution.

When you use a SCART lead, the RGB information is fed directly to the TV's

processor, without being converted into a modulator. Therefore, the screen image is much sharper with better colour. I would definitely recommend a SCART cable, even if you're only using a TV.

Theoretically, SCART (or European) connects to a single standard, and any SCART cable will suffice provided it has the correct plug on its Amiga end. In practice, there seems to have been a recent change in the SCART standard, and the new requires a special cable that includes a Jungle Chip (no kidding). The cable apparently works fine with old style SCART sockets too. You can buy one for about £10 from Modcons Ltd, 28 Parkside Way, Hatterston, Monmouth, LA1 4BL. Tel: 091 521 0590.

DATABASE DILEMMA

I have been searching with no success, for a database that can handle numbers, run under the impression that a database cannot handle numbers in excess of eight digits — am I correct? I want to make a database to handle Pharmacy retail numbers. Is there one available? Laurence Wilson, Oxford

Frankly, I'm amazed that you're having a problem. I have never encountered a database which doesn't handle numbers, and even the cheapest of them has no problem handling far more than eight digits. If the one you're using doesn't, perhaps the problem lies more in the way that you're defining the database when you're setting up the database.

Most databases require that you specify whether data should be numeric, textual, ordinal, etc., before you actually start entering data. Some also require you to specify the maximum size of the data that may be entered in a particular field.

Ensure that the field length is greater than eight characters and that it is of

the numeric type. If, by some error it is one of the other types, try specifying your numbers as text fields. If you're not entering numbers containing a various number of digits, you'll have to precede each number with zeros until they reach the number of digits of the longest number. For instance, if the longest number is 12345, the number 10 would be entered as 00001. The database will then sort and arrange the numbers exactly as you require.

Incidentally, many database programs can also handle long numbers using scientific (E) notation. Try Paradox, dBase or Interbase.

HEX HOCUM

I noticed in your A500 tutorial, that you refer to some of the numbers as being in Hex. This also came across in your explanation in other articles. What is

Hex, and how does it work? Steven Rowland, Richmond, London

Hex is short for Hexadecimal and it's a numbering system which uses base 16, as opposed to Decimal which is in base 10. Hex uses numbers 0 to 9 then continues A, B, C, D, E, F. F is equivalent to the decimal number 15.

In decimal, the columns reading from right to left, represent 1s, 10s, 100s, 1000s etc., with each column being worth ten times the value of the column to its right. In Hexadecimal, the columns represent 1s, 16s, 256s, 4096s, etc. Each column is worth sixteen times the value of the one to its right. As you see, this results in a very compact numbering system, that requires less space to represent large numbers. It is also directly compatible with the Amiga's sixteen-bit architecture, where data words in multiples of 16.



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TABLE GAMES

1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240	1241	1242	1243	1244	1245	1246	1247	1248	1249	1250	1251	1252	1253	1254	1255	1256	1257	1258	1259	1260	1261	1262	1263	1264	1265	1266	1267	1268	1269	1270	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280	1281	1282	1283	1284	1285	1286	1287	1288	1289	1290	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300	1301	1302	1303	1304	1305	1306	1307	1308	1309	1310	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320	1321	1322	1323	1324	1325	1326	1327	1328	1329	1330	1331	1332	1333	1334	1335	1336	1337	1338	1339	1340	1341	1342	1343	1344	1345	1346	1347	1348	1349	1350	1351	1352	1353	1354	1355	1356	1357	1358	1359	1360	1361	1362	1363	1364	1365	1366	1367	1368	1369	1370	1371	1372	1373	1374	1375	1376	1377	1378	1379	1380	1381	1382	1383	1384	1385	1386	1387	1388	1389	1390	1391	1392	1393	1394	1395	1396	1397	1398	1399	1400	1401	1402	1403	1404	1405	1406	1407	1408	1409	1410	1411	1412	1413	1414	1415	1416	1417	1418	1419	1420	1421	1422	1423	1424	1425	1426	1427	1428	1429	1430	1431	1432	1433	1434	1435	1436	1437	1438	1439	1440	1441	1442	1443	1444	1445	1446	1447	1448	1449	1450	1451	1452	1453	1454	1455	1456	1457	1458	1459	1460	1461	1462	1463	1464	1465	1466	1467	1468	1469	1470	1471	1472	1473	1474	1475	1476	1477	1478	1479	1480	1481	1482	1483	1484	1485	1486	1487	1488	1489	1490	1491	1492	1493	1494	1495	1496	1497	1498	1499	1500	1501	1502	1503	1504	1505	1506	1507	1508	1509	1510	1511	1512	1513	1514	1515	1516	1517	1518	1519	1520	1521	1522	1523	1524	1525	1526	1527	1528	1529	1530	1531	1532	1533	1534	1535	1536	1537	1538	1539	1540	1541	1542	1543	1544	1545	1546	1547	1548	1549	1550	1551	1552	1553	1554	1555	1556	1557	1558	1559	1560	1561	1562	1563	1564	1565	1566	1567	1568	1569	1570	1571	1572	1573	1574	1575	1576	1577	1578	1579	1580	1581	1582	1583	1584	1585	1586	1587	1588	1589	1590	1591	1592	1593	1594	1595	1596	1597	1598	1599	1600	1601	1602	1603	1604	1605	1606	1607	1608	1609	1610	1611	1612	1613	1614	1615	1616	1617	1618	1619	1620	1621	1622	1623	1624	1625	1626	1627	1628	1629	1630	1631	1632	1633	1634	1635	1636	1637	1638	1639	1640	1641	1642	1643	1644	1645	1646	1647	1648	1649	1650	1651	1652	1653	1654	1655	1656	1657	1658	1659	1660	1661	1662	1663	1664	1665	1666	1667	1668	1669	1670	1671	1672	1673	1674	1675	1676	1677	1678	1679	1680	1681	1682	1683	1684	1685	1686	1687	1688	1689	1690	1691	1692	1693	1694	1695	1696	1697	1698	1699	1700	1701	1702	1703	1704	1705	1706	1707	1708	1709	1710	1711	1712	1713	1714	1715	1716	1717	1718	1719	1720	1721	1722	1723	1724	1725	1726	1727	1728	1729	1730	1731	1732	1733	1734	1735	1736	1737	1738	1739	1740	1741	1742	1743	1744	1745	1746	1747	1748	1749	1750	1751	1752	1753	1754	1755	1756	1757	1758	1759	1760	1761	1762	1763	1764	1765	1766	1767	1768	1769	1770	1771	1772	1773	1774	1775	1776	1777	1778	1779	1780	1781	1782	1783	1784	1785	1786	1787	1788	1789	1790	1791	1792	1793	1794	1795	1796	1797	1798	1799	1800	1801	1802	1803	1804	1805	1806	1807	1808	1809	1810	1811	1812	1813	1814	1815	1816	1817	1818	1819	1820	1821	1822	1823	1824	1825	1826	1827	1828	1829	1830	1831	1832	1833	1834	1835	1836	1837	1838	1839	1840	1841	1842	1843	1844	1845	1846	1847	1848	1849	1850	1851	1852	1853	1854	1855	1856	1857	1858	1859	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	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OCTAM

If it were a car, *OctaMED Pro* would have a drinks cabinet and TV in the back – it's probably the most complete music package you'll ever find. In part three of this comprehensive user guide, Mat Broomfield continues his look at this accomplished music package. As mentioned last month, we're going to take a look at some more of the special commands that can be applied to your music. Before we do that, though, I think it will be extremely helpful to take a closer at the way that the program handles instruments...

A CLOSER LOOK AT SAMPLES

Last month, I showed you how to add your own samples to *OctaMED*'s internal sample list so they can be loaded more quickly. By now, you should already have added the new samples we gave you to the sample list. If you haven't, go back to last month's issue and do that before we go any further...

Right, let's load up an instrument and take a closer look.

1. Click on the **SUBT** button in the Options palette.



2. Click on the words **Drum Instruments** in the right-hand sample list window. A new list of instruments starting with the word **Adm** should appear in the left-hand window.



3. Click on the downward-pointing arrow at the bottom centre of the screen, and scroll through the list of samples until the instrument **Stringz** becomes visible.



4. Click on the word **Stringz** and the instrument will be loaded within a few seconds. To test that it has been loaded properly, press the letter **Q**, and you should hear the instrument play.



5. Click the **INSTR** button in the Options Palette to go to the Instrument Settings window.



This window is where you can temporarily tailor each instrument to your requirements. Although it doesn't give you the same flexibility as the sample editor in terms of individualising an instrument, it lets you alter the defaults of pre-sampled instruments, and it's also for making temporary adjustments to a single piece of audio.

SAMPLES, LOOPS AND THE SAMPLER



If you look towards the top right-hand side of this window, you should be able to see the word **LAMP**, because that's the number **8700**. This figure represents the size of the instrument in bytes. Below

ED

the are two windows titled **REPEAT** (Repeat Begin), and **TAU** (Pegspan Length). These are connected with setting a loop with an instrument. The number **REPEAT**, inside the letters **REPEAT**, signifies the starting position of the loop, while the number **TAU** denotes its length.

LOOPS

Loops are extremely useful, and to understand them better, let's go to the sampler. Click on **STARTED** from the Options Palette and the lower half of the screen will switch to show you the **Sampler Editor**.

WAVEFORMS

Running horizontally across the middle of the screen, you'll see the **Waveform Window**. The current sample is shown as a white rectangle against a black background. As you flip through, each sample is recorded. It is recorded into numbers representing its amplitude (volume) and frequency (pitch). Click the **Zoom In/Out** button until the pitch number at the top right of the **Waveform Window** reads **75**. You'll notice that the waveform has become much smaller, and is composed of lots of tiny waves. Each tiny wave represents a different number, and it is these that the Amiga converts back into audible sound. Because most samples consist of thousands, sometimes even tens of thousands of thousands of these numbers, the waveform is not an exact representation of the sample, it merely shows the general trends in amplitude and pitch.

ZOOM

Next, click the **Zoom Out** button until the pitch number reads **1500** again. If you look at the end of the waveform, you'll see two blue lines, indicating the current loop. When the sample is played, the area within the lines repeats indefinitely and is good for creating sustained effects. To see how this works, press the letter **C**. A thin white line will start moving across the sample from right to left, but when it gets to the very end of the sample, it will only return to the first blue line before starting again. The first blue line is the **Repeat Begin**, and the number of bytes between the first and second line is the **Repeat Length**.

TRANSPOSING AND FINE-TUNING AN INSTRUMENT

Now, if you look back at the instrument panel at the top of the screen (it should still be there), you'll notice two boxes labelled **Transpose** and **Fine Tune**. These are used to alter the pitch of an instrument so that it sounds higher or lower.

Why would I want to do that, when I can simply

enter a different note in the Note Editing Window? I hear you say, (we'll ask that DON'T you). The reason is very simple: every sample has a note pitch at which it plays. Ideally, this would always be **C**, so that, when you enter the note **C** in the Note Editing Window, the sample plays that note. Unfortunately, this is often not the case. Many samples are set up to sound samples tuned to the note **E** flat. This means that when you enter a **C** in the Note Editing Window, you actually hear a note which is three semitones higher than it should be.

Remember, a semitone is the distance between one note and the next highest or lowest on a piano keyboard. For instance, the distance between **C** and **C sharp**, or **E** and **F** (there's no **E sharp**, as you'll see if you look at the keyboard diagram we printed the month before last).

Of course, you could reassign the instrument so that it was tuned to the note **C**, but you might have a good reason to leave it tuned as it is. No problem, if you temporarily need to change the tuning of a sample, you can use the **Transpose** feature. Inside the **Transposer** window, there are two small boxes labelled **E minor** and **A flat** (written as **A-1**). When you click these, they **Click** or **Slide** the current instrument's pitch by one semitone. Therefore, to re-tune our **E flat** sample to a **C** you'd click the minus arrow until the number reads **-3**.

As you're not actually altering the sample, and merely the way that **OctaMED** plays it, this will only affect the current playing, and if you want to re-tune the sample for additional songs, you'll have to go through this process each time. Reusing information is saved with the song.

The **Fine Tune** option works in exactly the same way as the **Transpose** feature, except it **slides** and **slides** the pitch of a note in steps of one eighth of a semitone. Generally speaking, these slides are too small to distinguish one from the next, but some types of music, particularly Chinese and Indian, use instruments which are capable of playing quarter and eighth notes, so this level of precision is especially useful in such cases.

INSTRUMENT VOLUME SLIDERS AND THE VOLUME COMMAND

At the bottom of the instrument Settings Window, you'll see the volume slider. The numbers to be left represent the default volume for the instrument in both decimal and hexadecimal. By moving the slider, you can change the volume for the current instrument throughout the entire song. For example, suppose you've created a song in which a bass drum plays, but it sounds too loud in relation to the other instruments. Rather than work through other ways of decreasing the volume each time it occurs, by decreasing its volume in the instrument Settings Window, you create the same effect.

Please note that all volumes given with a string using the **V** command are expressed as a percentage of the instrument's maximum volume as specified in the instrument Settings Window. For example, if the instrument has a maximum volume of **64** (decimal) in the instrument Settings Window, the command **V60** will make it play at half volume. However, if the instrument's maximum volume in the instrument Settings Window is decreased to **32**, the command **V60** will actually cause it to play at quarter volume.

MORE COMMANDS

OK, enough with the instrument! Let's continue

looking at the commands that we started examining last week.

If you've been following the tutorial so far, you should understand the composition of a note, and know where the special effects commands are placed. You should especially understand what and what the left and right side bytes are. If you don't, I suspect that you've been and missed the introduction to the "Player Commands" section of last month's tutorial.

Command E - Synth Jump



Although **OctaMED** is at its best when playing sound samples, it can also be used to create its own synthesized sounds using the Amiga's internal sound generators. These are created by joining several sample waveforms together. For example, an instrument may be composed of up to three sine waves which are then followed by a square wave. The order in which these waves are played within a synth sound is defined by the **Waveform** sequence list. This useful command lets you jump straight to a particular place within the waveform sequence list - an idea, for example - and process subsequently early in use.

For example:

C 1 10000 - In this case, instrument 1 should be a synth (not 00000) or hybrid instrument.

== 00000 - Makes **OctaMED** jump to position 0 in the **== 00000** waveform sequence list.

DO YOU HAVE A PROBLEM?

DAMNED is a truly excellent program, but getting the very most out of it can be complicated at times. If you're having any problems using it, you'll be glad to hear that **CM** is starting a special **OctaMED** help column. Send in any questions that you have, and I'll try to answer them for you at the end of my column or in **Q&A** each month. Address your letters to **OctaMED Help, CM Amiga, Priority Court, 30-32 Farrington Lane, London, EC1R 3AU**.

OCTAMED

Command F - Miscellaneous

Unlike the other commands which only perform a single function, the F command has lots of different functions according to the values given in the data bytes.

Command F00 - Jump To Next Block

This causes Octamed to jump to the 000 of the next block in the Block Play List. If there is only one block, Octamed will go back to the beginning of that. It's better to use this command than to change the length of the blocks as it takes up less memory. For example:

```
C-0 10000  
— 00000  
C-0 10100 - This note is played then the program jumps.  
C-0 10000 - This note will never be played.
```

Command F01 To F99 - Change Primary Tempo

Although this command has a hexadecimal range between 00 and F9 (0-249 in decimal), speeds between 0 and A (decimal 0-10), should only be used when working in Soundtracker mode. As seen here:

```
C-0 10F0B - Sets the slowest possible speed.  
— 00000 - Speed returns now.  
10F1F - Sets the fastest speed.  
— 10F7F - Sets a medium speed.
```

Although this command goes up to F99, you're most likely going to require speeds between F00 and F10 (decimal 240 and 245).

Command FF1 - Play Double Note

Playing a note twice really fast. In theory, this is the same as playing the original note twice at double the speed, but you actually end up with two very fast notes and a total pause. Nevertheless, this is useful for creating very fast rhythms. Load up a drum, set a very slow tempo, and try the following:

```
C-0 10000  
C-0 10000  
C-0 10000  
C-0 10FF1 - Plays this note twice, very fast
```

Command FF2 - Delay Start

This slightly delays the start of the note, but then plays it much quicker once it begins. Load up a drum, set the Primary tempo slider to 33 and try the following:

```
C-0 10000 - These notes are just for comparison.  
C-0 10000  
— 00000  
C-0 10FF2 - The effect starts here.  
C-0 10000
```

Command FF3 - Play Treble Note

This is the same as FF2 but three notes are played - for example:

```
C-0 10000  
C-0 10FF3 - Plays this note three times, very fast.
```

Command FF5 - Filter Off

The Amiga has a built-in sound filter which is meant to remove unwanted hiss from sound samples. Unfortunately, it also muffles them. This command turns the filter off. You can see that it's worked because the green light on your computer

will dim or go out. Note, the filter is off by default, so you won't see anything happen unless you've turned it back on.
Try this:

```
C-0 10FF5 - Low pass filter turned off.
```

Command FF6 - Filter On

This simply turns the low pass filter back on. You should see the green light come on or get brighter - is

```
C-0 10FF6 - Low pass filter turned on.
```

FFD - Change Channel Pitch

This command changes the pitch of the channel to that of the note. The note itself is not immediately played. Load up the [Stranger] instrument to try the following:

```
C-0 10000 - The note C in Octave 2 is played normally.  
— 00000  
C-0 10FFD - Now, the pitch is changed to C in octave one — 00000 - and will affect how the master part of the — 00000 note sounds.
```

Command FFE - End Of Song

This command tells Octamed to stop playing. Use it at the end of a song when you don't want it to loop back to the beginning. As seen here:

```
C-0 10000  
— 00000  
— 00FFE - Stop playing now.
```

Command FFF - Stop Playing Note

With sampled sounds, this is important. In the command C00 (set volume to zero), however, it also works with MIDI. It simply stops the current note from playing.

```
C-0 10000  
— 00000  
— 00FFF - Turn off the note now.
```

There are many new commands which are unique to Octamed Professional 3.0. So that users of earlier versions of the program could also benefit from this tutorial, I haven't described them yet. Many of the commands described here, and in last month's tutorial, are only for use with samples, hybrids and synth sounds. MIDI users will find that they have completely different effects. Needless to say, I will be describing how to use them all some point in the future. But if you're desperate to get the most of the program right now, you'll find a real life called "New Features" in the Docs directory of the Octamed folder that will give you with the job done. This summarizes all of the new features, especially the extra MIDI capabilities of the program.

NEXT MONTH is the fourth part of our guide, we'll be looking at how to enter sheet music, both using the notation screen and manually. At the end of the tutorial, you'll be able to enter all your favourite pop songs from music books - unfortunately, we won't be telling you how to dress for that all-important Top Of The Pops debut. See you then.

DO YOU KNOW YOUR ONIONS?

Do you know what's what about *Music 87*? Or do you consider yourself the World's leading authority on *MovieMaker*? If so, then *CU Amiga* - Britain's fastest growing magazine - wants to hear from you.

In our attempt to cover virtually every aspect of the *Amiga* and its software, we are currently on the hunt for comprehensive guides to all the most popular utilities and software. We don't mean the likes of *CPaint* and *PaintBox*, as there are more than adequately covered in other features in the magazine, but there are dozens of users out there who may be struggling with, say, *Scout* 40 or *ProPage* - and if you can help them, why not earn a few quid doing it? Yes, you did read that last bit correctly, we are willing to pay for well-written and concise guides.

To put yourself in the running, simply give Don Skeagby, *CU Amiga's* Editor, a call on 071 672 5786 and talk to him about your proposal. However, be warned, that there is a lot of work involved and that all submissions must be supported with step-by-step illustrative materials, such as screen shots or specially drawn WFF diagrams.

So, if you want to join the editorial ranks of the winning *Amiga* team, give us a bell. Or if you have an idea for a utility you're struggling with, drop us a line and we'll try to help...

making the most of your

AMIGA

See those Utah Saints? That's you that is. Or at least it could be, after a bit of practice with your sampler. Tony Morgan takes a look at some ways of making your Amiga sound like a whole heap of expensive recording gear.

RAGGA TIPS

Have you ever heard a record on the radio, and thought I would have done that on my Amiga? I know I have. Take a record like Su2's 'On a Ragga Trip', for example. If you break it down into separate sounds, you'll find it's made up of four main parts:

1. A fairly short vocal that's been looped and stretched
2. A very simple bassline
3. A cutting off played on a very short sampled chord
4. A rising drum loop

There's absolutely no reason why that record couldn't have been sampled, stretched and recorded on a standard 1Mb Amiga. The same could be said for Akim's 'It's Hypnotic', 280, Rhythmic's 'Give Yourself to Me', and even Cobi Ray's 'Never Ways To Love'. Add a cheap MIDI synth to the setup, get someone to sing over your backing, and you're into R&B territory.

For the moment, we'll assume all we've got to work with is a C640 Amiga, a 650 sampler and something like MIDI or Protracker for the sequencing. Let's also assume we're writing dance music of some kind. So what's the first step on the road to increased making? Now about...

THE IDEA

Yes, it does help if you've got an idea or two kicking around before you get started. Decide what kind of mood you want to create, whether it's happy, embroiled, camp, snazzy, mellow or whatever. If you've got a particular theme in mind, then so much the better. Once you've got an idea of what you want, you can set about putting theory into practice.

THE SOUND OF NOW

Before you delve into that stack of 51-80 sample disks (you know, the ones you got years ago with your first Tracker program), take time out to see what sounds are being used in today's records. For example, hardcore and new music currently favour substantial sub-bass, slightly more up-front 'bottle' beats, a couple of few drum loops mixed into one, and tracks made up of vocal samples and abstract chords. The more soulful dance records are going in for simple electric organs and the ever-popular strings, while dubstep sounds of heavier future terms sit in the background for occasional ambient touch tones.

Trends in dance music do move on pretty quickly, though, and as you read this, new fads will be developing. Keep your ear to the ground, unless you want to end up like Status Quo, in which case you'll better give your hair a ring, and learn how to play it. 'Nuts-to-Fart' live on an album for 25 years.

NO EXCUSES

Now that you're competing with the big boys, there's no room for excuses. After a record company tracks that 'Good, considering it's done on an Amiga, and you won't have much luck. The fact is that US record companies and the public couldn't give a toss what gear you used to make the record, as long as it sounds good. Even so, it's not a good idea to advertise the fact that you work with a 1Mb, 650 sampler. Let them assume you've made the record with professional spec gear, and they won't have any prejudices. The last thing you want is a black mark against your music before it even gets to hearing.

Before you start, realistically hope to create anything of broadcast-quality, you'll have to hone your sampling techniques. Once you can grab samples without a noticeable drop in quality from the original, you're ready to roll. See last month's column for some tips on how to improve your sampling.

QUART IN A PINTPOT

The biggest problem now is the Amiga's limiting four tracks. You could easily be those with the drum pattern alone, so how are you supposed to squeeze in the rest of your samples? The trick is to be make everything sound, and not to take up tracks with unnecessary sounds at the expense of key samples.

When it comes to drum sounds, sampling a complete beatset is the best way to economise on tracks. It's often a good idea to chop the beat into four, eight or sixteen parts, so that you can rearrange it to suit your needs. If you like to make up your own beats, you can still get a decent groove from a single track, but the beat with four tracks first. Look to see which sounds are triggered together, and mix the ten, three or four samples into one. You should then be able to reconstruct the beat on a single track, using your combined samples.

You could choose to sample a beat with a bassline, which would save you another track, but then you're going on to rather design around. Generally, no-one gets too caught about people using their drum loops, but you can expect a bit of strife (but to mention demands for cash from the original artist) if you over-step the mark.

SHUT UP AND SUE

If you do sample anyone's work, you should be prepared for the consequences. Any blatant samples will come to the attention of the artist and record company that owns the copyright. The best outcome you can hope for, is to have a reasonable cut of the profits go to the original artist/record company. These financial settlements can go either way though. While some make a good thing this way, others have had sobering experiences. DJ's, owner of Suzanne Vega's 'Tom's Diner' sold over five million copies worldwide. DJ's earned a mere £4,000 from the record.

The most sound like a fortune to shut up. And Carlos, who recently saw their potential sample use 'Ravin' 'Till I'm Dead' shut down in flames. Party promoter Mark Cohn objected to the samples from his song 'Working in Memphis', so ordered its withdrawal after a week at number two in the chart. All proceeds went to charity, leaving SUAD with nothing but a bit of controversy to their name. So watch out!



Thanks to the flexibility of software like ProTracker, using less clever gear can help...

FAME AND FORTUNE

Fortunately, fame and fortune didn't immediately go hand in hand, either, when it came to music. If being noticed by fans didn't give a sleeping-in-the-beds-for-a-weekend you can get away with anything, the same goes for why or how. As you get up to the top of the charts, you can't take it for granted that you'll be able to do anything you want. In fact, if you want to be a star, you can't take it for granted that you'll be able to do anything you want. You can't take it for granted that you'll be able to do anything you want. You can't take it for granted that you'll be able to do anything you want.

In short, it's a long way from being a star to being a star. It's a long way from being a star to being a star. It's a long way from being a star to being a star. It's a long way from being a star to being a star.

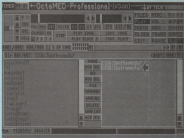
FALSE MOUSTACHE

Use a bit of imagination, and it's possible to disguise your samples, so that even the original artist wouldn't recognise them. Play your sample back at a different speed to the original, put it with a new beat, bassline and drums, and not only is it harder to detect the borrowed sound, but the case for the prosecution is diminished to a degree.

THE GOOD BIT

While there's a good market for dance records at the moment, there are also a lot of people making them, so you've got to make your stand out from the crowd somehow. This is where the 'good bit' comes into play. It could be a vocal vocal as in Usher's 'Something Good', or a simple but memorable bassline like The Future Sound of London's 'Foggy New Guinea'. It could just be a good tune and catchy chorus.

Then there's the novelty record. I should think anyone working on a Chubby Checker record has missed the boat, but then I thought that before the Turnip and Banana (which records appeared, it seems there's life in the old dog yet).



Sampling is often the best initial step. Several hit records have got by with a simple sampling loop, which is then stretched and repeated.

ORIGINAL ROUTE

For those who fancy a more original approach, there are a number of options. You don't get many purely instrumental records breaking into the charts, mainly because vocals provide a focal point for the listener to latch onto. But you don't need a race of superhuman keyboardists to come up with a catchy tune. Remember 'Tricky Dicky'? That was one that used seriously low-tech strings to

emulate effect.

There's still hope for those who like the idea of original records, but don't bring a team. Add a unique voice to your song, and you could even be asked to speak vocals, via one of the voice-changing real-time effects options found on the likes of Audio Engineer, Audition 4 and Techno Sound. Better still, team up with someone who can sing.

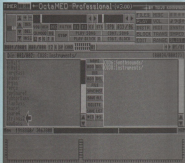
MIX AND MATCH

Once you've finished off the track, it's not a bad idea to try some alternative mixes. If you want radio, maybe try your best for a short version. Have at least one mix that's around three and a half minutes long. Doing an extended 12" mix is a fairly straightforward exercise. It's surprising how much difference a few breakdowns will make to the overall mood of a record. Without changing the tempo at all, a synthesizer can take the most handsome of tunes, whirling ragging-drum loop can bring new life to a previously laid-back mix.

With all your mixes finished, you've then got to make options for getting them on general release. The first is to make up some demo tapes, and send them out to record companies and independent labels. The advantage of this is that it requires very little financial outlay, but it carries a lot of a lottery. If you can afford it, probably the better option is to get some records pressed, get them to independent shops, and give out copies to DJs. At least that way people get to hear your music, and once you start getting worthwhile amounts, the record companies will start to take notice. This means, as Del Rey says, 'the first year you won't be millionaires' but don't bank on it, that's all.

NEXT MONTH

So to what new ways as easy as it sounds? Next month, we'll look at the ways of making the most of your professional-sounding track. Stay tuned.



Obviously, it sometimes pays to invest in more to your time. Audio Engineer and Audition 4 are perfect for this. They can save you a lot of time and money.

CLUB CALL

Computing was never meant to be a solitary affair! Hundreds of computer groups exist around the country to help you get the most out of your Amiga. If you've got a problem that needs solving, want to buy hardware or software at cost price, or just want to converse with fellow enthusiasts, there's a club somewhere near you. Here are some of the first replies we've received.

AMIGA VIDEO PRODUCERS GROUP

8 Redwood Close, Grange Park, Welwyn, Herts, EN1 1AB.
Tel: 0763 830887

The aims of the Amiga Video Producers' Group (AVPG) are quite simple: they are out to promote and assist anybody who wishes to produce video material using the Amiga as a production tool. The group was founded more than 18 months ago by Jim Straton, a man with more than 20 years' experience in the computer industry, formerly working on very high-level graphics systems. Initially bought an AT 586 to aid me in producing video and had straight into a black hole concerning information about using the Amiga for video production, beyond simple video-taping using Deluxe Paint' explains Jim.

However, with a bit of work, Jim realised his prospects and started to make progress, to the extent that he now runs a video production business based on using middle-range video equipment and a greatly-enhanced Amiga 1600 as the critical tool.

The AVPG is a vehicle for Jim to share his knowledge with other users as well as providing other members' knowledge and expertise to the common good. Membership ranges from casual enthusiasts, who don't derive some income from video, to pure enthusiasts who do it for fun. Membership currently stands at just over 60, but is growing at the rate of about one or two a week. Meetings take place in Welwyn once every three months, mostly because that's where Jim lives, but also because the area has good road and rail links. The meetings normally take up a whole weekend, from Friday evening to Sunday lunchtime. They take the form of a project, with members attempting to script, plan, shoot, edit and produce a video during that time.

At the moment, there's no charge for membership, although an £80 fee is politely requested if you

want to receive a reply. There's a plan to produce a bi-monthly disk-based magazine for a charge of about £15 per year. Once the demand reaches the 25 subscribers mark it will be used to produce. Interested members can obtain a free information pack by sending an SAE to the above address. There's also an introductory video available to members for £14.95. This was produced to reinforce the concepts of DTV to the first time user. At this time, it is being revised, to take account of all the changes in the Amiga world, but this new version should be ready by the time you read this.

THE PENNINE AMIGA CLUB

28 Spencer Street, Kesteven, West Yorkshire, BD21 2BA.

With its membership standing at 826, the Pennine Amiga Club is already well-established, drawing members from all over the world and not just along the M63. The club is even opening a branch in Texas this year.

Membership and ALL services are free of charge. Members only pay for things they buy. Because of the size of PAC, the club can get almost any item from almost any supplier at a discount price. The club is non-profit making, with the expenses meeting its needs except the salaries of running the club grow and prosper.

Membership is open to anybody, regardless of their computing ability, providing they own and use an Amiga.

AMOS PROGRAMMERS' EXCHANGE

7 Hagstone Road, Hatch Warren, Basingstoke, Hants, RG23 3BZ.

If you're one of the thousands of AMOS users, then you'll certainly be interested in this new club. The AMOS Programmers' Exchange is planning to start a new disk magazine, not exclusively by and for AMOS programmers. The subscription will be

£10 per year in the UK, £18 for overseas subscribers. At the moment, the club is just finding its feet, so any help would be gratefully appreciated.

NORTHERN IRELAND AMIGA USER GROUP

88 Credilly Road, Ballymena, Co. Antrim, BT54 4DS.

We were sent very little information about this group, other than they produce a regular newsletter to keep members in touch with each other. A disk magazine is also currently being put together.

AMIGA USERS CLUB (BODMIN)

1 Widdow House, 18 Castle Street, Bodmin, PL31 3XX.

The Amiga Users Club (Bodmin) was started by Jack Telling in 1987 when he realised that a number of Amiga owners would be experiencing exactly the same problems to solve. The jump from the ZX81 via the Spectrum to the Amiga 500 was a big leap as far as getting to grips with the file of AmigaDOS, Workbench, etc. was concerned.

From a small gathering of three, the club soon grew to its current tally of twenty members. Meetings are held every Friday evening from 8.00 until the last one leaves. All computer subjects, from animation to music to spreadsheets to programming are covered in an informal atmosphere.

There is no membership fee or Committee, just a container for refreshment funds and an eager group of Amiga owners wanting to learn from each other. Beginners are especially welcome.

SHROPSHIRE AMIGA LINK

2 Oakdown Garage, Handley, Shrewsbury, TF9 5AR.

The main aims of SAIL are:

1. Generate communication between Amiga users.
2. Help beginners get to grips with the Amiga.
3. Encourage members to get the most from their software with an Amiga magazine to answer any queries.

Full membership (just £15 per year which includes access to a telephone hotline, a database of useful notes, a small PC library, out going disks, and a club disk magazine. Working Membership hasn't even reached the 'barely wet, so any input or support from readers would be very much appreciated. So, do yourself a big favour, and get going...

GET IN TOUCH!

If you run a club specifically aimed at the Amiga owner, get in touch. We'll promote your club through these pages, as well as provide a free subscription to SAIL Amiga. Send all entries to: Ben Straton, Amiga Clubs, 133 Amiga, 50-52 Farringham Lane, Farringham, London, EC1R 3RU.

NEXT MONTH

MULTIMEDIA IS GO! (...AGAIN)

Yes, I know we said our multimedia feature was going to be this issue, but if things ran as smoothly as we wished, then we wouldn't be able to give our Publisher a heart attack each month. Thus, our next issue will be taking a look at all things multimedia as we show you how to transform your humble Amiga into the workstation of the future. We'll be reviewing some of the best authoring systems available to help you combine graphics and sound into your very own multimedia extravaganza. Will the multimedia revolution change the face of computing for ever? Also on show will be the definitive head-to-head between two of the most prominent CD-ROM platforms. Which machine will come out top? The only place to find out is in the next issue of CU Amiga.

GAMES BONANZA

With the big software houses gearing up for a deluge of games in the coming months, CU AMIGA is there with joysticks wiggling with delight as we try out all the latest games (and before you, too!). Games scheduled to appear include Gremlin's Lotus 3, Origin's Wing Commander, Sin-Tec's Crusaders Of The Dark Scepter (again), and countless other goodies. Be here for the most comprehensive and thorough game reviews of any magazine.

BOOKWORMS START HERE

There are certainly a lot of books available that detail all you could possibly ever want to know about the Amiga, but which ones are any good? The CU Amiga bookworms have been plying through a library full of the very best Amiga books and giving their verdicts on what's hot and what's not. We'll be taking a look at all the latest hints and tips books as well as an extensive round-up of the many technical books that adorn the bookshelves of your local computer store.

WHICH AMIGA IS BEST FOR YOU

With so many different Amigas vying for your cash, it's difficult to know which one to choose. If you're thinking of upgrading to a higher spec machine or considering buying an Amiga for the first time, here's where to look to find out which model's best for you.

ART GALLERY

Our art gallery section kicks off with a fantastic selection of work produced by our readers. If you're a budding artist, this is the place to look for hints and tips on improving your technique. If you've produced a masterpiece and have saved out your pic in various stages of completion, then why not show off your work to the rest of the Amiga world?

PLUS!

TWO RED HOT DISKS

Gremlin's Lotus 3 is ready and waiting to be put through its paces in the most eagerly-awaited playable demo of the year. Also on show (hopefully, and with a prevailing wind) will be Sin-Tec's Crusaders Of The Dark Scepter, the latest installment in the on-going Wizardry series. Of course, there's a lot more on offer, as we'll also have another fine selection of complete games to play, and there'll be a few surprises in store, too. Another packed disk full of all sorts of top-quality programs. There'll hopefully be another full-price utility on offer, as well as the best programs drawn from the Public Domain. Plus, there'll be yet more samples to use with our Octamed Pro giveaway and some more Star Trek clip art. And don't forget, there'll be extensive documentation to help you get the most out of all the programs we use. We spoil you, we really do...

Contents may be subject to change without notice.

CU AMIGA - OCTOBER ISSUE ON SALE 26TH SEPTEMBER.

pirate problems

Piracy has always been a problem. But what, if anything, can be done to stop the perpetrators?
Steve Keen talks to the men in the front line.

MONEY DOWN THE DRAIN

It may surprise you to know that, for all the money-ing software houses make about how much money they lose to piracy every year, no accurate survey into this problem has ever been conducted.

However, in 1990 a thorough investigation was conducted as to the losses suffered on the business side with some incredible results. In England alone, business software manufacturers lost £200 million, with an incredible \$4.4 billion lost just in Western Europe. With this in mind, we spoke to the man in the front line about what can be done to reverse the trend and curb the pirate's appetite.

Fugro (formerly the British Secretary of EUSPA (European Software Publishers Association)), the body responsible for protecting the interests of more than 80% of the software companies in Britain. He said, "We are taking great strides towards slowing the industry of this menace. This common knowledge now that we have invested £10,000 in FAST (Prevention Against Software Theft) this year alone so that they can provide themselves with a full time staff of several investigators who specialise in hunting down the pirates and taking action on our members' behalf."

EUSPA have long been associated with FAST and the latest action is nothing new. Most of us can remember the somewhat disturbing adverts in the computer press not long ago, depicting people running in face painting masks to FAST and being rewarded with a £1000 cheque. But how successful have they been? Fugro continues: "With the new-found union that FAST and EUSPA have created we've succeeded in a number of raids and prosecutions. We've just this month paid out another £2,000 pounds for a conviction in Ipswich where, examining the legal problems of such a case, only took two months from the initial report sent to its location. We are currently taking measures on our copyright. This time, we're concentrating on educating the public so they realise the pitfalls and consequences of buying and using unauthorised software."

MONEY FOR NOTHING?

On the other side of the coin, FAST's representatives, Bob Hines, never ceases to be amazed as to where the £100 in no interest cash they receive every year comes from. He got a bit from disbelieving teenagers, even businessmen, after a reward, he claims. But an increasing amount of people who've recently been made redundant are turning in their former company for using pirated software. "We've even getting calls from people all at work who are being forced to use copied software by their bosses and taking their jobs by refusing. By so can safely say that attitudes are changing and the message is finally getting through. We recently dealt with a case concerning the Mirror (publishing) where over 80% of the software being used was copied and passed throughout the company.

There can't be an office in the land that doesn't do that or think nothing of it. But, if you can imagine 2000 copies of MacWrite Just £200 is time, in one such building, it works out to be a very expensive loss for Apple."

WHEEL OF FORTUNE

On the software side, Electronic Arts have been one of the leaders in anti-piracy techniques and they were the first to introduce the directed code wheel. Simon Jeffries, IPR Manager for the company, said, "We were the company who came up with the idea for a wheel which, if necessary, they add to the code if the product as we don't sit there anymore. I don't think there's any way to protect your software completely so we've found a happy medium and gone for manual protection. Most of our games are so in-depth that to try and play them without a manual would be impossible, and to try and photocopy them wouldn't be worthwhile. There will always be people who'll come up with ever more clever ways to make games for pirates and being copied, but my attitude is that if there's someone out there with the knowledge to produce such code then there's definitely someone out there with the knowledge to break it. And to some extent that represents a challenge. We estimate that for every legal copy of a game there are six illegal versions. Having said that, FAST have done a great job all last year so the problem was a hundred times worse."

WHAT CAN BE DONE?

Cosset's Managing Director and man behind the now infamous 'Gongor' puts the numbers even higher. Says Gary Boney: "It's impossible to estimate the size of the problem, but if I'm forced to I'd say that for every one of our games bought on the shelves it's 50 or more copied, depending on the title. Of course not everyone who pirates a game would have bought it, but we think that every software company's profits would, at the very least, double if piracy could be eradicated. This is one of the main attractions of the console market and the reason a lot of Amiga developers are abandoning the machine. As long as piracy continues to thrive the number of new titles making the transition to console will rise. It must be stopped now and what we had with the 'Gongor' was a chance to do just that. Someone had to make a stand and although every other software house was interested in the device they would only come in when they knew that the thing had been tried and tested. So we put our money where our mouth was, which was a pretty brave thing to do. We could have waited on the sidelines between CD and CD, to the consumer, but we didn't, which is something we're pretty proud of. But it didn't work, but contrary to popular belief the device was not cracked in hours, but weeks by a team of hardened professionals using Emulators (very expensive bits of kit which mimic the micro-



processor chip allowing access to all aspects of the program's code). The version that appeared on the Internet boards was a reproduction copy which was removed out of our back door shortly after the game was finished and didn't have the 'Gongor' code in it. Interestingly enough, we had hundreds of letters after the gadget's release from people who claimed to have an alternative, definitive anti-piracy device, but nothing really stood out as being viable, but I'm sure there's one out there somewhere. It's up to someone else to test up the running now."

ENTER COMMODORE

Ultimately who better to cross swords with the pirates and take the lead out of their sails than the Amiga manufacturers themselves. Commodore. We asked Andy Bell, head of Commodore UK's marketing, if they had any ideas up their sleeves. "We aren't going to produce any hardware for existing machines, but with the 486 PCMCIA card and now covering the sale of the 4800 it should allow programmers to develop code making it a lot more difficult to pirate. The same can be said for the CD, which is virtually impossible to copy. The door further into software piracy directly simply because we don't produce any. However, we monitor volatile boards and the like and, as was the case with 'Gongor', it is which appeared on the street, we stamp on any infringement very quickly. I think you'll find all the companies do. The only way piracy can be beaten is by option is by technology and the medium of data storage change any from floppy disk. It's a pity Commodore 'Gongor' don't work. Without piracy, manufacturers could cut their costs out of 15 to 20 or even 25 and still still increase the profits they make today. So the next time you need a pirate and are offered a dog's head for an amazingly low price, remember, he's not only taking money from corporate coffers, but he's gradually stealing it out of your pocket as well - it doesn't seem quite so clever now, does it?"

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